

## SEARCH REQUEST FORM

Requestor's  
Name: \_\_\_\_\_

Serial

Number: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Art Unit: \_\_\_\_\_

## Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

## STAFF USE ONLY

Date completed: 03-14-05

Searcher: Beverly e 4994

Terminal time: 20

Elapsed time: \_\_\_\_\_

CPU time: \_\_\_\_\_

Total time: 23

Number of Searches: \_\_\_\_\_

Number of Databases: 1

## Search Site

\_\_\_\_\_ STIC

\_\_\_\_\_ CM-1

\_\_\_\_\_ Pre-S

## Type of Search

\_\_\_\_\_ N.A. Sequence

\_\_\_\_\_ A.A. Sequence

\_\_\_\_\_ Structure

\_\_\_\_\_ Bibliographic

## Vendors

\_\_\_\_\_ IG Suite

\_\_\_\_\_ STN

\_\_\_\_\_ Dialog

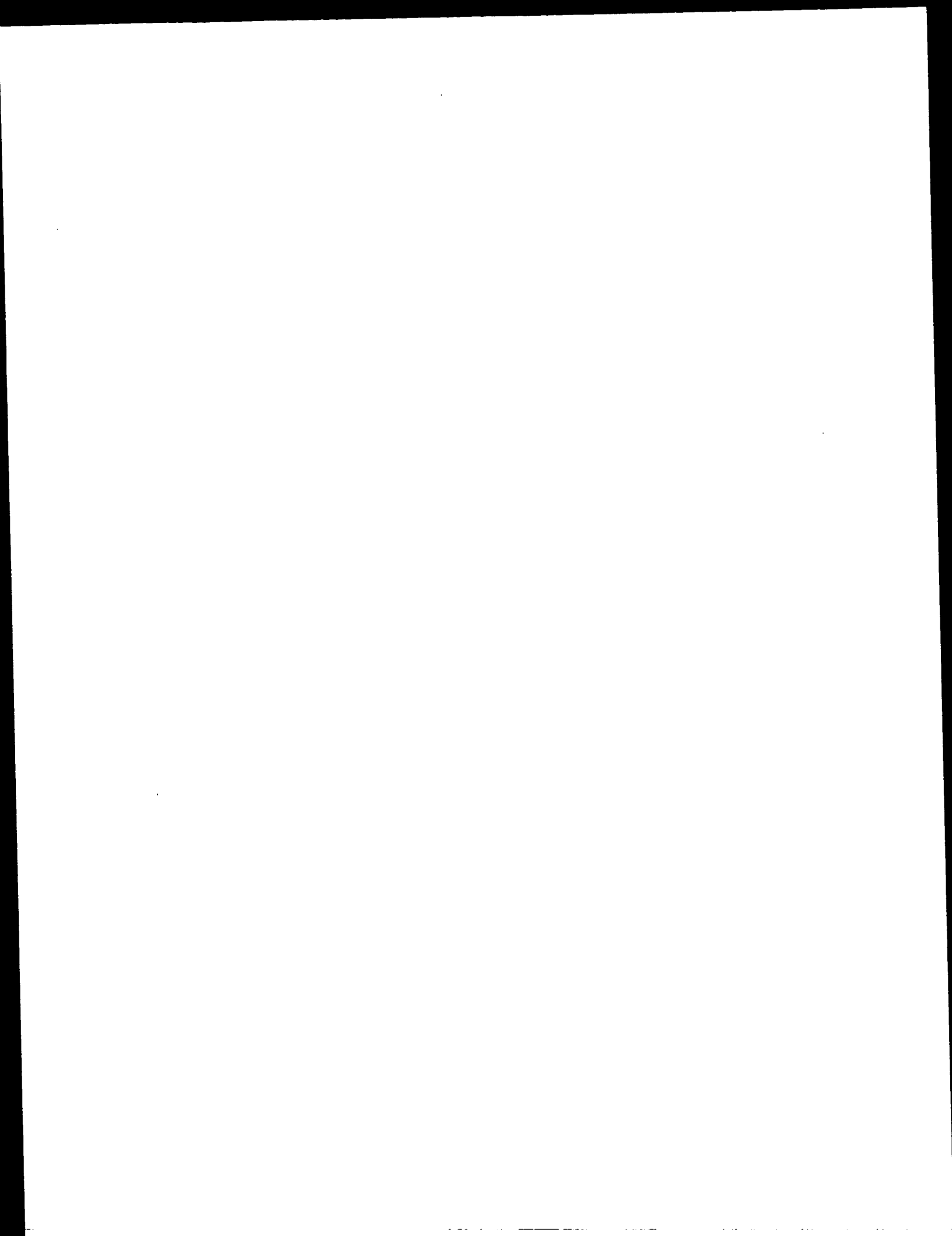
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\_\_\_\_\_ DARC/Questel

\_\_\_\_\_ Other CGN



STIC-Biotech/ChemLib

87941

From: Schultz, James  
Sent: Monday, March 03, 2003 11:08 AM  
To: STIC-Biotech/ChemLib  
Subject: sequence search request for 10/001,844

Hello,

I need a length limited nucleotide sequence search performed on SEQ ID NO:3 (1576 nt long) in the above entitled case, where the maximum size of the returned hit is no longer than 50 nucleotides.

Thank you very much,

Doug Schultz

J. Douglas Schultz, Ph.D.  
AU 1635 (Biotechnology)  
Patent Examiner  
United States Patent and Trademark Office  
(703) 308-9355  
(703) 746-3973 (fax)  
Office: CM1 12E18  
Mail: CM1 11E12

Point of Contact:  
Beverly Shears  
Technical Info. Specialist  
CM1 1E05 Tel: 308-4994

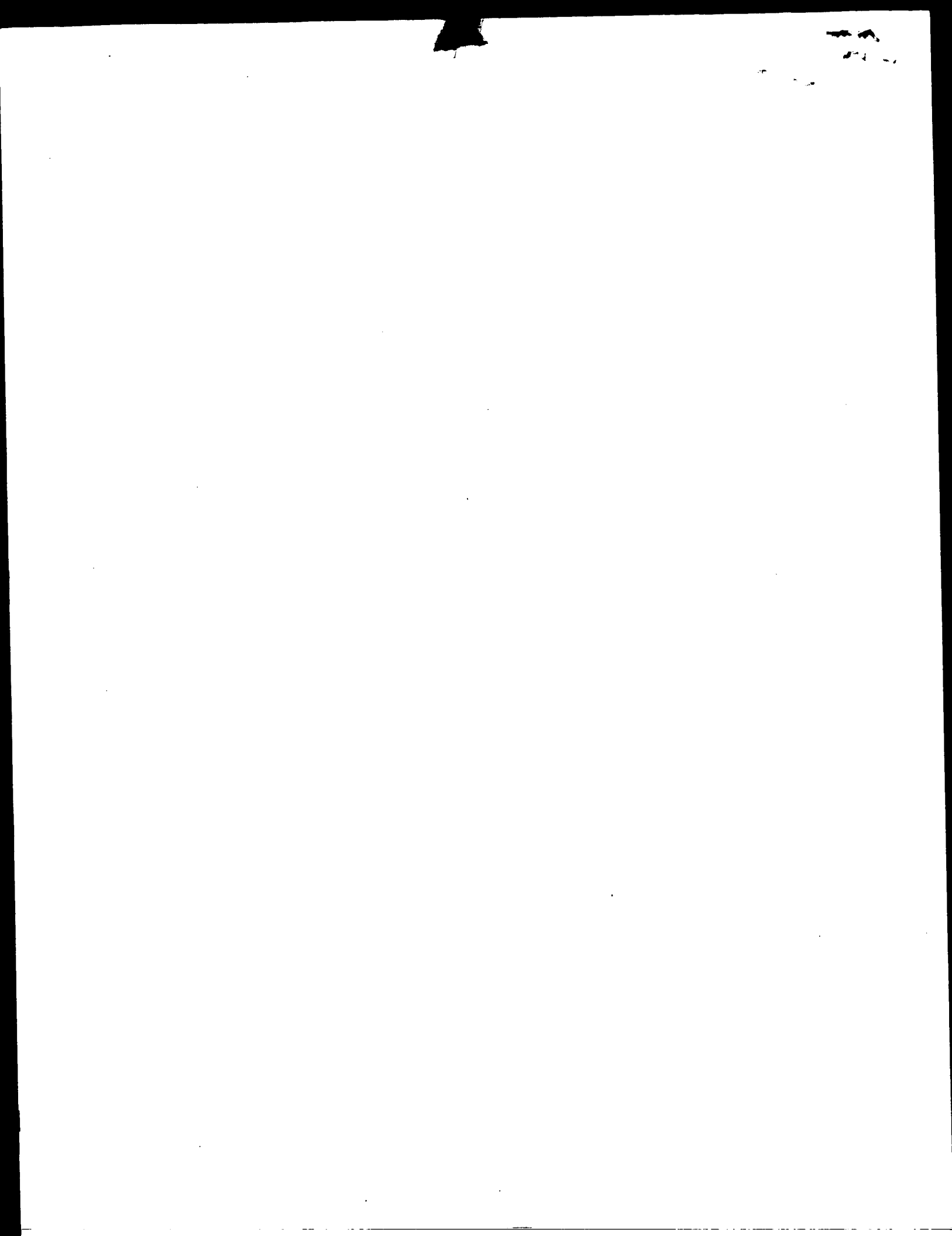
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Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

TYPE OF SEARCH:

NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
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172	21.4	1.4	45	38	US-10-012-231A-151	Sequence 151, App	C 245	21	1.3	47	29	US-09-724-866-9247	Sequence 9247, A
173	21.4	1.4	45	38	US-10-012-237A-151	Sequence 151, App	C 246	21	1.3	47	29	US-09-724-866A-9247	Sequence 9247, A
174	21.4	1.4	45	38	US-10-012-752A-151	Sequence 151, App	C 247	21	1.3	47	41	US-10-170-097-935	Sequence 935, App
175	21.4	1.4	45	38	US-10-012-752A-151	Sequence 151, App	C 248	21	1.3	47	41	US-10-170-097-935	Sequence 935, App
176	21.4	1.4	45	38	US-10-012-752A-151	Sequence 151, App	C 249	21	1.3	47	41	US-10-170-097-935	Sequence 935, App
177	21.4	1.4	45	38	US-10-012-752A-151	Sequence 151, App	C 250	21	1.3	47	61	US-10-227-565-62619	Sequence 62619, App
178	21.4	1.4	45	38	US-10-013-430A-151	Sequence 151, App	C 251	21	1.3	50	7	PCT-US02-25943-9247	Sequence 9247, App
179	21.4	1.4	45	38	US-10-013-906A-151	Sequence 151, App	C 252	21	1.3	50	8	US-08-475-228-374	Sequence 3824, A
180	21.4	1.4	45	38	US-10-013-906A-151	Sequence 151, App	C 253	21	1.3	50	8	US-08-482-980A-2153	Sequence 3824, A
181	21.4	1.4	45	38	US-10-013-907A-151	Sequence 151, App	C 254	21	1.3	50	11	US-08-781-986A-2153	Sequence 374, App
182	21.4	1.4	45	38	US-10-013-909A-151	Sequence 151, App	C 255	21	1.3	50	11	US-08-781-986A-2153	Sequence 2153, App
183	21.4	1.4	45	38	US-10-013-910A-151	Sequence 151, App	C 256	21	1.3	50	13	US-08-956-171B-2153	Sequence 2153, App
184	21.4	1.4	45	38	US-10-013-913A-151	Sequence 151, App	C 257	21	1.3	50	13	US-08-956-171B-2153	Sequence 2153, App
185	21.4	1.4	45	38	US-10-013-913A-151	Sequence 151, App	C 258	21	1.3	50	13	US-08-956-171C-2153	Sequence 2153, App
186	21.4	1.4	45	38	US-10-013-915A-151	Sequence 151, App	C 259	21	1.3	50	13	US-08-956-171E-2153	Sequence 2153, App
187	21.4	1.4	45	38	US-10-013-385A-151	Sequence 151, App	C 260	21	1.3	50	29	US-09-755-374A-876	Sequence 876, App
188	21.4	1.4	45	38	US-10-013-386A-151	Sequence 151, App	C 261	21	1.3	50	29	US-09-755-374A-876	Sequence 374, App
189	21.4	1.4	45	38	US-10-013-387A-151	Sequence 151, App	C 262	21	1.3	50	29	US-09-755-374A-14682	Sequence 14682, A
190	21.4	1.4	45	38	US-10-013-388A-151	Sequence 151, App	C 263	21	1.3	50	29	US-09-755-374A-19358	Sequence 19358, A
191	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 264	21	1.3	50	37	US-09-755-374A-77994	Sequence 77994, A
192	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 265	21	1.3	50	42	US-10-227-565-35824	Sequence 374, App
193	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 266	20.8	1.3	38	1	PCT-US02-25943-14120	Sequence 14120, A
194	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 267	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
195	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 268	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
196	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 269	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
197	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 270	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
198	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 271	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
199	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 272	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
200	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 273	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
201	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 274	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
202	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 275	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
203	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 276	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
204	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 277	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
205	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 278	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
206	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 279	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
207	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 280	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
208	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 281	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
209	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 282	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
210	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 283	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
211	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 284	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
212	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 285	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
213	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 286	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
214	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 287	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
215	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 288	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
216	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 289	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
217	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 290	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
218	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 291	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
219	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 292	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
220	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 293	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
221	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 294	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
222	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 295	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
223	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 296	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
224	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 297	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
225	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 298	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
226	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 299	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
227	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 300	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
228	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 301	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
229	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 302	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
230	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 303	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
231	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 304	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
232	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 305	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
233	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 306	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
234	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 307	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
235	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 308	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
236	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 309	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
237	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 310	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
238	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 311	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
239	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 312	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A
240	21.4	1.4	45	38	US-10-013-389A-151	Sequence 151, App	C 313	20.8	1.3	42	2	US-10-227-565-14120	Sequence 14120, A

C 314	20.4	1.3	30	40	US-10-144-360-4	Sequence 4, Appli	C 387	20.2	1.3	49	8	US-08-472-801-1459	Sequence 1459, Ap
C 315	20.4	1.3	32	40	PCT-US02-25940-4004	Sequence 4004, Ap	C 388	20.2	1.3	49	10	US-08-668-235-1459	Sequence 1459, Ap
C 316	20.4	1.3	32	40	US-10-144-360-5	Sequence 5, Appli	C 389	20.2	1.3	49	42	US-10-227-565-1156	Sequence 1156, Ap
C 317	20.4	1.3	32	42	US-10-227-565-4004	Sequence 4004, Ap	C 390	20.2	1.3	50	7	US-08-361-811-107	Sequence 107, App
C 318	20.4	1.3	34	40	US-10-144-360-6	Sequence 6, Appli	C 391	20.2	1.3	50	7	US-08-381-478-144	Sequence 144, App
C 319	20.4	1.3	35	26	US-09-669-187A-771	Sequence 771, App	C 392	20.2	1.3	50	9	US-08-535-025-144	Sequence 144, App
C 320	20.4	1.3	35	30	US-09-776-479-771	Sequence 771, App	C 393	20.2	1.3	50	9	US-08-591-919-144	Sequence 144, App
C 321	20.4	1.3	35	33	US-09-888-326-172	Sequence 172, App	C 394	20.2	1.3	50	9	US-08-592-007-144	Sequence 144, App
C 322	20.4	1.3	35	38	US-10-017-995-771	Sequence 771, App	C 395	20.2	1.3	50	9	US-08-592-027-144	Sequence 144, App
C 323	20.4	1.3	35	38	US-10-112-653-744	Sequence 744, App	C 396	20.2	1.3	50	9	US-08-592-027-144	Sequence 144, App
C 324	20.4	1.3	35	40	US-08-131-104-3	Sequence 3, Appli	C 397	20.2	1.3	50	13	US-08-582-131-144	Sequence 144, App
C 325	20.4	1.3	36	40	US-10-144-360-7	Sequence 7, Appli	C 398	20.2	1.3	50	13	US-08-582-131-144	Sequence 144, App
C 326	20.4	1.3	38	40	US-10-144-360-8	Sequence 8, Appli	C 399	20.2	1.3	50	25	US-09-642-058-242	Sequence 854, Ap
C 327	20.4	1.3	39	42	PCT-US02-25943-47774	Sequence 47774, A	C 400	20.2	1.3	50	29	US-09-755-374A-8544	Sequence 8544, Ap
C 328	20.4	1.3	39	42	US-10-227-565-47774	Sequence 47774, A	C 401	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 329	20.4	1.3	40	1	PCT-US97-19596-37	Sequence 37, Appli	C 402	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 330	20.4	1.3	40	1	PCT-US97-19596A-37	Sequence 37, Appli	C 403	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 331	20.4	1.3	40	13	US-07-969-192A-1	Sequence 1, Appli	C 404	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 332	20.4	1.3	40	13	US-08-962-012-37	Sequence 37, Appli	C 405	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 333	20.4	1.3	40	13	US-10-144-360-9	Sequence 9, Appli	C 406	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 334	20.4	1.3	40	13	PCT-US02-25940-14922	Sequence 14922, A	C 407	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 335	20.4	1.3	41	13	US-08-084-033A-14	Sequence 14, Appli	C 408	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 336	20.4	1.3	41	13	US-08-930-589-14	Sequence 14, Appli	C 409	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 337	20.4	1.3	41	18	US-09-404-520-31285	Sequence 31285, A	C 410	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 338	20.4	1.3	41	38	US-10-027-961A-14	Sequence 14, Appli	C 411	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 339	20.4	1.3	41	40	US-10-144-360-20	Sequence 20, Appli	C 412	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 340	20.4	1.3	41	40	US-10-227-563-14922	Sequence 14922, A	C 413	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 341	20.4	1.3	42	39	US-10-061-071-76	Sequence 76, Appli	C 414	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 342	20.4	1.3	44	5	US-08-131-104-2	Sequence 2, Appli	C 415	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 343	20.4	1.3	45	1	PCT-US02-25940-12335	Sequence 12335, A	C 416	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 344	20.4	1.3	45	42	US-10-227-563-12335	Sequence 12335, A	C 417	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 345	20.4	1.3	46	1	PCT-US02-25943-40405	Sequence 40405, A	C 418	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 346	20.4	1.3	46	42	US-10-227-565-40405	Sequence 40405, A	C 419	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 347	20.4	1.3	47	6	US-08-233-586A-7	Sequence 7, Appli	C 420	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 348	20.4	1.3	48	1	PCT-US02-25940-11618	Sequence 11618, A	C 421	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 349	20.4	1.3	48	42	US-10-227-563-11618	Sequence 11618, A	C 422	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 350	20.4	1.3	49	29	US-09-740-002-9	Sequence 9, Appli	C 423	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 351	20.4	1.3	50	11	US-08-781-986A-5127	Sequence 5127, Ap	C 424	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 352	20.4	1.3	50	13	US-08-956-171-5127	Sequence 5127, Ap	C 425	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 353	20.4	1.3	50	13	US-08-956-171C-5127	Sequence 5127, Ap	C 426	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 354	20.4	1.3	50	13	US-08-956-171E-5127	Sequence 5127, Ap	C 427	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 355	20.4	1.3	50	13	US-08-956-171E-5127	Sequence 5127, Ap	C 428	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 356	20.4	1.3	50	28	US-09-702-690-3	Sequence 3, Appli	C 429	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 357	20.4	1.3	50	29	US-09-755-374A-7332	Sequence 7332, Ap	C 430	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 358	20.4	1.3	50	29	US-09-755-374A-14160	Sequence 14160, A	C 431	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 359	20.4	1.3	50	29	US-09-755-374A-16320	Sequence 16320, A	C 432	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 360	20.4	1.3	50	29	US-09-755-374A-27180	Sequence 27180, A	C 433	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 361	20.2	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 434	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 362	20.2	1.3	25	17	US-09-386-196F-67178	Sequence 67178, A	C 435	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 363	20.2	1.3	25	17	US-09-386-196F-67178	Sequence 67178, A	C 436	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 364	20.2	1.3	34	1	PCT-US02-25943-19012	Sequence 19012, A	C 437	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 365	20.2	1.3	34	42	US-10-227-565-19012	Sequence 19012, A	C 438	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 366	20.2	1.3	34	42	US-10-227-565-39117	Sequence 39117, A	C 439	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 367	20.2	1.3	34	42	US-10-227-565-39117	Sequence 39117, A	C 440	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 368	20.2	1.3	41	18	US-09-404-520-32345	Sequence 32345, A	C 441	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 369	20.2	1.3	41	18	US-09-404-520-32345	Sequence 32345, A	C 442	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 370	20.2	1.3	42	42	US-10-227-565-14679	Sequence 14679, A	C 443	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 371	20.2	1.3	44	69	US-60-253-654-27120	Sequence 27120, A	C 444	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 372	20.2	1.3	44	69	US-60-255-592-27120	Sequence 27120, A	C 445	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 373	20.2	1.3	45	42	PCT-US02-25940-22163	Sequence 22163, A	C 446	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 374	20.2	1.3	45	42	US-10-227-563-22163	Sequence 22163, A	C 447	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 375	20.2	1.3	46	1	PCT-US02-25943-13749	Sequence 13749, A	C 448	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 376	20.2	1.3	46	8	US-08-475-228-85	Sequence 85, Appli	C 449	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 377	20.2	1.3	46	16	US-09-230-930B-1	Sequence 85, Appli	C 450	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 378	20.2	1.3	46	16	US-09-230-930B-1	Sequence 85, Appli	C 451	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 379	20.2	1.3	46	37	US-09-993-346-85	Sequence 85, Appli	C 452	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 380	20.2	1.3	46	42	US-10-227-565-13749	Sequence 13749, A	C 453	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 381	20.2	1.3	47	6	US-08-292-686B-48	Sequence 48, Appli	C 454	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 382	20.2	1.3	47	10	US-08-601-209A-67	Sequence 67, Appli	C 455	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 383	20.2	1.3	48	22	US-09-577-410-6513	Sequence 6513, Ap	C 456	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 384	20.2	1.3	48	38	US-10-016-686-35	Sequence 35, Appli	C 457	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 385	20.2	1.3	48	39	US-10-072-152-32	Sequence 32, Appli	C 458	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap
C 386	20.2	1.3	49	1	PCT-US02-25943-1156	Sequence 1156, Ap	C 459	20.2	1.3	50	32	US-09-755-374A-8544	Sequence 8544, Ap

460	20	1.3	45	37	US-09-992-521-122	Sequence 122, App	C 533	19.8	1.3	43	1	PCT-US02-25943-18488	Sequence 18488, A
461	20	1.3	45	37	US-09-992-598-122	Sequence 122, App	C 534	19.8	1.3	43	18	US-09-404-549-4257	Sequence 4257, App
462	20	1.3	45	37	US-09-993-469-122	Sequence 122, App	C 535	19.8	1.3	43	18	US-09-404-549-4257	Sequence 4257, App
463	20	1.3	45	37	US-09-993-583-122	Sequence 122, App	C 536	19.8	1.3	43	42	US-10-227-565-18488	Sequence 18488, A
464	20	1.3	45	37	US-09-993-604-122	Sequence 122, App	C 537	19.8	1.3	43	42	PCT-US02-25943-30397	Sequence 30397, A
465	20	1.3	45	37	US-09-993-667-122	Sequence 122, App	C 538	19.8	1.3	43	44	US-10-227-565-30397	Sequence 30397, A
466	20	1.3	45	37	US-09-993-687-122	Sequence 122, App	C 539	19.8	1.3	43	46	US-09-230-9308-2	Sequence 2, App11
467	20	1.3	45	37	US-09-993-748-122	Sequence 122, App	C 540	19.8	1.3	46	16	US-09-230-9308-2	Sequence 2, App11
468	20	1.3	45	37	US-09-994-054-122	Sequence 122, App	C 541	19.8	1.3	46	16	US-09-230-9308-2	Sequence 2, App11
469	20	1.3	45	37	US-09-996-243-122	Sequence 122, App	C 542	19.8	1.3	47	1	PCT-US02-25943-28002	Sequence 28002, A
470	20	1.3	45	37	US-09-997-333-122	Sequence 122, App	C 543	19.8	1.3	47	1	PCT-US02-25943-60375	Sequence 60375, A
471	20	1.3	45	37	US-09-997-349-122	Sequence 122, App	C 544	19.8	1.3	47	42	US-10-227-565-462	Sequence 462, App
472	20	1.3	45	37	US-09-997-384-122	Sequence 122, App	C 545	19.8	1.3	47	42	US-10-227-565-28002	Sequence 28002, A
473	20	1.3	45	37	US-09-997-428-122	Sequence 122, App	C 546	19.8	1.3	47	42	US-10-227-565-60375	Sequence 60375, A
474	20	1.3	45	37	US-09-997-440-122	Sequence 122, App	C 547	19.8	1.3	49	29	US-09-724-866-10697	Sequence 10697, A
475	20	1.3	45	37	US-09-997-514-122	Sequence 122, App	C 548	19.8	1.3	49	29	US-09-724-866-10697	Sequence 10697, A
476	20	1.3	45	37	US-09-997-529-122	Sequence 122, App	C 549	19.8	1.3	49	61	US-60-171-432-10697	Sequence 10697, A
477	20	1.3	45	37	US-09-997-542-122	Sequence 122, App	C 550	19.8	1.3	50	1	PCT-US02-25944-9874	Sequence 9874, A
478	20	1.3	45	37	US-09-997-559-122	Sequence 122, App	C 551	19.8	1.3	50	1	PCT-US02-25944-11692	Sequence 11692, A
479	20	1.3	45	37	US-09-997-573-122	Sequence 122, App	C 552	19.8	1.3	50	1	PCT-US02-25944-11694	Sequence 11694, A
480	20	1.3	45	37	US-09-997-585-122	Sequence 122, App	C 553	19.8	1.3	50	18	US-09-498-485A-2374	Sequence 2374, App
481	20	1.3	45	37	US-09-997-601-122	Sequence 122, App	C 554	19.8	1.3	50	29	US-09-755-374A-14800	Sequence 14800, A
482	20	1.3	45	37	US-09-997-614-122	Sequence 122, App	C 555	19.8	1.3	50	29	US-09-755-374A-14802	Sequence 14802, A
483	20	1.3	45	37	US-09-997-628-122	Sequence 122, App	C 556	19.8	1.3	50	29	US-09-755-374A-17394	Sequence 17394, A
484	20	1.3	45	37	US-09-997-641-122	Sequence 122, App	C 557	19.8	1.3	50	29	US-09-755-374A-17394	Sequence 17394, A
485	20	1.3	45	37	US-09-997-653-122	Sequence 122, App	C 558	19.8	1.3	50	42	US-10-227-567-11692	Sequence 11692, A
486	20	1.3	45	37	US-09-997-666-122	Sequence 122, App	C 559	19.8	1.3	50	42	US-10-227-567-11694	Sequence 11694, A
487	20	1.3	45	37	US-09-997-683-122	Sequence 122, App	C 560	19.8	1.2	30	1	PCT-US02-25943-43543	Sequence 43543, A
488	20	1.3	45	37	US-09-997-857-122	Sequence 122, App	C 561	19.6	1.2	30	42	US-10-227-565-43543	Sequence 43543, A
489	20	1.3	45	37	US-09-998-041-122	Sequence 122, App	C 562	19.6	1.2	34	1	PCT-US02-25942-50297	Sequence 50297, A
490	20	1.3	45	37	US-09-998-041-122	Sequence 122, App	C 563	19.6	1.2	34	1	PCT-US02-25943-69293	Sequence 69293, A
491	20	1.3	45	39	US-10-072-068-9	Sequence 9, App11	C 564	19.6	1.2	34	1	US-10-227-565-49297	Sequence 49297, A
492	20	1.3	45	39	US-10-211-069-35	Sequence 35, App1	C 565	19.6	1.2	34	42	US-10-227-565-49297	Sequence 49297, A
493	20	1.3	45	42	US-10-219-538-122	Sequence 122, App	C 566	19.6	1.2	34	42	US-10-227-565-49297	Sequence 49297, A
494	20	1.3	46	1	PCT-US02-25943-2396	Sequence 2396, App	C 567	19.6	1.2	35	1	PCT-US02-25943-16824	Sequence 16824, A
495	20	1.3	46	18	US-09-404-520-39936	Sequence 39936, A	C 568	19.6	1.2	35	42	US-10-227-565-16824	Sequence 16824, A
496	20	1.3	46	23	US-09-605-698-11039	Sequence 11039, A	C 569	19.6	1.2	41	8	US-08-472-801-12752	Sequence 12752, A
497	20	1.3	46	42	US-10-227-565-2396	Sequence 2396, App	C 570	19.6	1.2	41	8	US-08-472-801-12752	Sequence 12752, A
498	20	1.3	47	1	PCT-US02-25943-21146	Sequence 21146, A	C 571	19.6	1.2	41	10	US-08-668-225-184	Sequence 184, App
499	20	1.3	47	23	US-09-606-680-776	Sequence 776, App	C 572	19.6	1.2	41	10	US-08-668-225-184	Sequence 184, App
500	20	1.3	47	30	US-09-785-632A-6	Sequence 6, App11	C 573	19.6	1.2	41	18	US-09-404-520-38730	Sequence 38730, A
501	20	1.3	47	30	US-09-785-632A-6	Sequence 6, App11	C 574	19.6	1.2	41	18	US-09-404-520-38730	Sequence 38730, A
502	20	1.3	47	30	US-10-223-765-6	Sequence 6, App11	C 575	19.6	1.2	41	42	US-10-227-563-12752	Sequence 12752, A
503	20	1.3	47	42	US-10-223-765-6	Sequence 6, App11	C 576	19.6	1.2	43	1	US-09-404-520-29014	Sequence 29014, A
504	20	1.3	47	42	US-10-227-565-27146	Sequence 27146, A	C 577	19.6	1.2	43	8	PCT-US02-25943-6376	Sequence 6376, App
505	20	1.3	47	42	US-10-227-565-27146	Sequence 27146, A	C 578	19.6	1.2	43	10	US-08-472-801-1382	Sequence 1382, App
506	20	1.3	48	1	PCT-US02-25943-23442	Sequence 23442, A	C 579	19.6	1.2	43	42	US-10-227-565-6376	Sequence 6376, App
507	20	1.3	48	42	US-10-227-565-23442	Sequence 23442, A	C 580	19.6	1.2	44	1	PCT-US02-25940-12751	Sequence 12751, App
508	20	1.3	49	27	US-09-699-011A-134	Sequence 134, App	C 581	19.6	1.2	44	8	US-08-472-801-438	Sequence 438, App
509	20	1.3	50	1	PCT-US02-25943-56525	Sequence 56525, A	C 582	19.6	1.2	44	10	US-08-668-235-439	Sequence 235, App
510	20	1.3	50	10	US-08-672-571-13	Sequence 13, App1	C 583	19.6	1.2	44	42	US-10-227-563-12751	Sequence 12751, A
511	20	1.3	50	11	US-08-798-074-12964	Sequence 12964, A	C 584	19.6	1.2	44	42	US-10-227-563-30167	Sequence 30167, A
512	20	1.3	50	11	US-08-798-074B-12964	Sequence 12964, A	C 585	19.6	1.2	44	42	US-09-404-520-43763	Sequence 43763, A
513	20	1.3	50	29	US-09-755-374A-1888	Sequence 1888, App	C 586	19.6	1.2	45	18	US-09-404-520-43763	Sequence 43763, A
514	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 587	19.6	1.2	45	33	US-09-668-758-9	Sequence 9, App11
515	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 588	19.6	1.2	45	30	US-09-753-037-8	Sequence 30305, A
516	20	1.3	50	29	US-09-755-374A-25791	Sequence 25791, A	C 589	19.6	1.2	46	30	US-09-753-037-8	Sequence 30305, A
517	20	1.3	50	29	US-10-227-565-56525	Sequence 56525, A	C 590	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
518	20	1.3	50	29	US-09-396-1966-62926	Sequence 62926, A	C 591	19.6	1.2	47	69	US-60-253-456-3708	Sequence 3708, App
519	19.8	1.3	25	17	US-09-396-1966-62926	Sequence 62926, A	C 592	19.6	1.2	48	18	US-09-498-098-46	Sequence 46, App1
520	19.8	1.3	25	36	US-09-554-427-111223	Sequence 111223, A	C 593	19.6	1.2	48	28	US-09-704-424-22217	Sequence 22217, A
521	19.8	1.3	25	67	US-60-233-166-111223	Sequence 111223, A	C 594	19.6	1.2	50	1	PCT-US01-47856-181	Sequence 181, App
522	19.8	1.3	33	8	US-08-472-801-388	Sequence 388, App	C 595	19.6	1.2	50	5	PCT-US02-25943-11895	Sequence 11895, A
523	19.8	1.3	33	10	US-08-668-235-389	Sequence 389, App	C 596	19.6	1.2	50	5	US-08-138-516-19	Sequence 19, App1
524	19.8	1.3	39	1	PCT-US02-25943-33117	Sequence 33117, A	C 597	19.6	1.2	50	6	US-08-220-661A-57	Sequence 57, App1
525	19.8	1.3	39	42	US-10-227-563-33117	Sequence 33117, A	C 598	19.6	1.2	50	6	US-08-220-661B-57	Sequence 57, App1
526	19.8	1.3	40	3	US-07-969-192A-24	Sequence 24, App1	C 599	19.6	1.2	50	6	US-08-220-662-57	Sequence 495, App
527	19.8	1.3	40	28	US-09-704-424-26587	Sequence 26587, A	C 600	19.6	1.2	50	11	US-08-798-074B-495	Sequence 495, App
528	19.8	1.3	41	18	US-09-404-520-34886	Sequence 34886, A	C 601	19.6	1.2	50	11	US-08-798-074B-495	Sequence 495, App
529	19.8	1.3	41	18	US-09-404-520-35503	Sequence 35503, A	C 602	19.6	1.2	50	14	US-09-073-079-712	Sequence 712, App
530	19.8	1.3	42	1	PCT-US02-25943-20684	Sequence 20684, A	C 603	19.6	1.2	50	29	US-09-755-374A-672	Sequence 672, App
531	19.8	1.3	42	17	US-09-380-447A-206	Sequence 206, App	C 604	19.6	1.2	50	29	US-09-755-374A-12398	Sequence 12398, App
532	19.8	1.3	42	42	US-10-227-565-20684	Sequence 20684, A	C 605	19.6	1.2	50	29	US-09-755-374A-14266	Sequence 14266, A

606	19.6	1.2	50	29	US-09-755-374A-21259	Sequence 21259, A	679	19.4	1.2	50	29	US-09-755-374A-26918	Sequence 26918, A
607	19.6	1.2	50	29	US-09-755-374A-24768	Sequence 24768, A	680	19.4	1.2	50	29	US-09-755-374A-26920	Sequence 26920, A
608	19.6	1.2	50	34	US-09-912-292-606	Sequence 606, App	681	19.4	1.2	50	30	US-09-765-555-25	Sequence 25, App1
609	19.6	1.2	50	34	US-09-912-293-18731	Sequence 18731, App	682	19.4	1.2	50	31	US-09-813-155-852	Sequence 852, App
610	19.6	1.2	50	40	US-10-131-827-181	Sequence 181, App	683	19.4	1.2	50	40	US-10-131-827-533	Sequence 523, App
611	19.6	1.2	50	40	US-10-131-831-181	Sequence 181, App	684	19.4	1.2	50	40	US-10-131-831-523	Sequence 523, App
612	19.6	1.2	50	40	US-10-131-831-181	Sequence 181, App	685	19.4	1.2	50	40	US-10-131-831-523	Sequence 523, App
613	19.6	1.2	50	42	US-10-227-565-11895	Sequence 11895, A	686	19.2	1.2	25	17	US-09-425-462-15	Sequence 15, App1
614	19.6	1.2	50	48	US-60-047-802-712	Sequence 712, App	687	19.2	1.2	25	17	US-09-396-196F-67172	Sequence 67172, A
615	19.4	1.2	25	17	US-09-396-196F-62925	Sequence 62925, A	688	19.2	1.2	25	36	US-09-954-427-270241	Sequence 270241, A
616	19.4	1.2	25	17	US-09-396-196F-62925	Sequence 62925, A	689	19.2	1.2	25	67	US-60-233-166-110873	Sequence 110873, A
617	19.4	1.2	25	17	US-09-396-196F-62925	Sequence 62925, A	690	19.2	1.2	25	67	US-60-233-166-110873	Sequence 110873, A
618	19.4	1.2	25	17	US-09-396-196F-62925	Sequence 62925, A	691	19.2	1.2	25	79	US-60-353-987-63773	Sequence 63773, A
619	19.4	1.2	29	7	PCT-US02-25943-28563	Sequence 28563, A	692	19.2	1.2	33	8	PCT-US02-25943-24497	Sequence 24497, A
620	19.4	1.2	29	8	US-08-472-801-2675	Sequence 2675, App	693	19.2	1.2	33	10	US-08-472-801-693	Sequence 693, App
621	19.4	1.2	29	10	US-08-668-235-2675	Sequence 2675, App	694	19.2	1.2	33	10	US-10-227-565-24497	Sequence 24497, A
622	19.4	1.2	29	32	US-09-833-203-23	Sequence 23, App1	695	19.2	1.2	33	42	US-10-227-565-16824	Sequence 16824, A
623	19.4	1.2	29	42	US-10-227-565-28563	Sequence 28563, A	696	19.2	1.2	35	1	US-10-227-565-16824	Sequence 16824, A
624	19.4	1.2	30	42	PCT-US02-25943-58398	Sequence 58398, A	697	19.2	1.2	35	42	US-07-887-265A-28	Sequence 28, App1
625	19.4	1.2	30	42	US-10-227-565-58398	Sequence 58398, A	698	19.2	1.2	36	6	US-08-244-121-28	Sequence 28, App1
626	19.4	1.2	31	42	US-10-227-565-30422	Sequence 30422, A	699	19.2	1.2	36	6	US-09-997-868-28	Sequence 28, App1
627	19.4	1.2	31	42	US-09-833-203-24	Sequence 24, App1	700	19.2	1.2	36	37	US-09-997-868-28	Sequence 28, App1
628	19.4	1.2	37	32	US-09-833-203-24	Sequence 24, App1	701	19.2	1.2	38	1	PCT-US02-25943-38594	Sequence 38594, A
629	19.4	1.2	38	77	US-60-334-904-185	Sequence 185, App	702	19.2	1.2	38	42	US-10-227-565-12802	Sequence 12802, A
630	19.4	1.2	39	28	US-09-704-424-33212	Sequence 33212, A	703	19.2	1.2	38	42	US-10-227-565-38594	Sequence 38594, A
631	19.4	1.2	40	8	US-08-472-801-510	Sequence 510, App	704	19.2	1.2	38	42	US-10-227-565-38594	Sequence 38594, A
632	19.4	1.2	40	10	US-08-668-235-511	Sequence 511, App	705	19.2	1.2	40	1	PCT-US02-25943-9687	Sequence 9687, App
633	19.4	1.2	42	1	PCT-US02-25943-43897	Sequence 43897, A	706	19.2	1.2	40	17	US-09-324-672A-282	Sequence 282, App
634	19.4	1.2	42	42	US-10-227-565-43897	Sequence 43897, A	707	19.2	1.2	40	17	US-09-324-672A-282	Sequence 282, App
635	19.4	1.2	43	1	PCT-US02-25940-11707	Sequence 11707, A	708	19.2	1.2	40	17	US-09-324-672A-282	Sequence 282, App
636	19.4	1.2	43	1	PCT-US02-25943-413	Sequence 413, App	709	19.2	1.2	41	18	US-09-404-520-33531	Sequence 33531, App
637	19.4	1.2	43	11	US-08-728-463-245	Sequence 245, App	710	19.2	1.2	41	31	US-09-821-837-3923	Sequence 3923, App
638	19.4	1.2	43	11	US-08-728-463-245	Sequence 245, App	711	19.2	1.2	41	36	US-09-953-198-339	Sequence 339, App
639	19.4	1.2	43	29	US-09-724-965-21707	Sequence 21707, A	712	19.2	1.2	41	36	US-06-353-790-11110	Sequence 11110, App
640	19.4	1.2	43	42	US-10-227-565-413	Sequence 413, App	713	19.2	1.2	42	1	PCT-US02-25943-55982	Sequence 55982, A
641	19.4	1.2	43	44	US-60-278-258-14162	Sequence 14162, A	714	19.2	1.2	42	3	US-07-722-860-8	Sequence 8, App1
642	19.4	1.2	44	71	US-60-278-258-14162	Sequence 14162, A	715	19.2	1.2	42	6	US-08-213-449A-8	Sequence 8, App1
643	19.4	1.2	45	1	PCT-US02-25943-13816	Sequence 13816, A	716	19.2	1.2	42	6	US-08-213-449A-8	Sequence 8, App1
644	19.4	1.2	45	6	US-08-213-446A-43	Sequence 43, App1	717	19.2	1.2	42	6	US-08-213-449A-8	Sequence 8, App1
645	19.4	1.2	45	6	US-08-213-447A-43	Sequence 43, App1	718	19.2	1.2	42	6	US-08-213-449A-8	Sequence 8, App1
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650	19.4	1.2	45	12	US-08-805-382-29	Sequence 29, App1	723	19.2	1.2	44	1	PCT-US02-25940-21770	Sequence 21770, A
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RESULT 1
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; Sequence 9, Application US/09590211
; GENERAL INFORMATION:
; APPLICANT: Rouleau, Guy A.
; APPLICANT: Brais, Bernard
; TITLE OF INVENTION: Short GCG Expansions in the PAB II Gene
; TITLE OF INVENTION: for oculopharyngeal Muscular Dystrophy and Diagnostic
; TITLE OF INVENTION: Therect
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; CURRENT APPLICATION NUMBER: US/09/590.211
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; PRIOR FILING DATE: 1997-12-09
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-590-211-9

Query Match          2.0%; Score 31.8; DB 22; Length 45;
Best Local Similarity 83.7%; Pred. No. 1.7e+05;
Matches 36; Conservative 0; Mismatches 7; Indels 0; Gaps

QY      1343 GCGCGGACAGCGCGCGCGGACCGCGCGGCGCGCGCGCA 1385
        |||||+-----+|||||+-----+|||||+-----+|||||
Db       3 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCA 45

RESULT 2
US-09-590-211A-9
; Sequence 9, Application US/09590211A
; GENERAL INFORMATION:
; APPLICANT: Rouleau, Guy A.

```



```
APPLICANT: Brals, Bernard
TITLE OF INVENTION: SHORT GCG EXPANSIONS IN THE PAB II GENE
FILE OF INVENTION: FOR OCULOPHARYNGEAL MUSCULAR DYSTROPHY AND DIAGNOSTIC THEREOF
FILE REFERENCE: 3028.1000-000
CURRENT APPLICATION NUMBER: US/09/590,211A
CURRENT FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: PCT/CA98/01133
PRIOR FILING DATE: 1998-12-07
PRIOR APPLICATION NUMBER: 2,218,199
PRIOR FILING DATE: 1997-12-09
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9
LENGTH: 45
TYPE: DNA
ORGANISM: Homo sapiens
US-09-590-211A-9
```

```
Query Match
Best Local Similarity 2.0%; Score 31.8; DB 22; Length 45;
Matches 36; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY 1343 GCGCGGACAGCGCGGCGGACCGCGGCGCGCGCGCA 1385
Db 3 GCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCA 45
```

```
RESULT 3
US-09-782-650-16
Sequence 16, Application US/09782650
GENERAL INFORMATION:
APPLICANT: Levine, Arnold J.
APPLICANT: Mitterer, Artur
APPLICANT: Falkner, Falko-Guenther
APPLICANT: Schefflinger, Friedrich
APPLICANT: Dorner, Friedrich
APPLICANT: Edwards Lifesciences Corporation
TITLE OF INVENTION: Targeted Angiogenesis
FILE REFERENCE: 20553D-000611US
CURRENT APPLICATION NUMBER: US/09/782,650
CURRENT FILING DATE: 2001-02-12
PRIOR APPLICATION NUMBER: US 09/324,079
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: US 09/327,045
PRIOR FILING DATE: 1999-06-07
PRIOR APPLICATION NUMBER: PCT/US00/14988
PRIOR FILING DATE: 2000-05-31
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 16
LENGTH: 50
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial sequence: annealed
US-09-782-650-16
```

```
Query Match
Best Local Similarity 2.0%; Score 31.4; DB 30; Length 50;
Matches 35; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
```

```
QY 1341 GCGCGGAGACGCGCGGCGGACCGCGGCGCGCGGC 1381
Db 7 GCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGC 47
```

```
RESULT 4
US-09-590-211-8
Sequence 8, Application US/09590211
GENERAL INFORMATION:
APPLICANT: Rouleau, Guy A.
APPLICANT: Brals, Bernard
```

```
TITLE OF INVENTION: Short GCG Expansions in the PAB II Gene
FILE OF INVENTION: for oculopharyngeal Muscular Dystrophy and Diagnostic
FILE REFERENCE: 3028.1000-000
CURRENT APPLICATION NUMBER: US/09/590,211
CURRENT FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: PCT/CA98/01133
PRIOR FILING DATE: 1998-12-07
PRIOR APPLICATION NUMBER: 2,218,199
PRIOR FILING DATE: 1997-12-09
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 42
TYPE: DNA
ORGANISM: Homo sapiens
US-09-590-211-8
```

```
Query Match
Best Local Similarity 1.8%; Score 28.8; DB 22; Length 42;
Matches 33; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY 1346 GGGGACAGCGCGCGGACCGCGGCGCGCGCGCA 1385
Db 3 GCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCA 42
```

```
RESULT 5
US-09-590-211A-8
Sequence 8, Application US/09590211A
GENERAL INFORMATION:
APPLICANT: Rouleau, Guy A.
APPLICANT: Brals, Bernard
TITLE OF INVENTION: SHORT GCG EXPANSIONS IN THE PAB II GENE
FILE OF INVENTION: FOR OCULOPHARYNGEAL MUSCULAR DYSTROPHY AND DIAGNOSTIC THEREOF
FILE REFERENCE: 3028.1000-000
CURRENT APPLICATION NUMBER: US/09/590,211A
CURRENT FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: PCT/CA98/01133
PRIOR FILING DATE: 1998-12-07
PRIOR APPLICATION NUMBER: 2,218,199
PRIOR FILING DATE: 1997-12-09
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 42
TYPE: DNA
ORGANISM: Homo sapiens
US-09-590-211A-8
```

```
Query Match
Best Local Similarity 1.8%; Score 28.8; DB 22; Length 42;
Matches 33; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY 1346 GGGGACAGCGCGCGGACCGCGGCGCGCGCGCA 1385
Db 3 GCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCA 42
```

```
RESULT 6
PCT-US02-26129-14
Sequence 14, Application PC/TUS0226129
GENERAL INFORMATION:
APPLICANT: Origene Technologies
APPLICANT: Origene Technologies
TITLE OF INVENTION: Serine Protein Kinase in Brain and Pancreas
FILE REFERENCE: 160 101 PCT
CURRENT APPLICATION NUMBER: PCT/US02/26129
CURRENT FILING DATE: 2002-08-16
PRIOR APPLICATION NUMBER: US 09/930,101
PRIOR FILING DATE: 2001-08-16
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn version 3.1
```

```

; SEQ ID NO 14
;
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
;
PCT-US02-26129-14

```

Query Match	1.8%	Score 28.2;	DB 1;	Length 50;
Best Local Similarity	73.5%;	Pred. No. 6.2e+05;		
Matches	36;	Conservative	0;	Mismatches 13;
			Indels	0;
			Gaps	0;

**QY**      1336 GGAACCGCGCGGAGCAGCGCGGGGAGCCCGGGGCGGCGGC 1384  
          || || || || || || || || || || || || || || || ||  
**Db**      1 GGCGCGGGCGCGGCTCGGCGCGCGCGGCGGCGGCGGCGAAGC 49

RESULT 7  
US-10-195-071-14  
; Sequence 14, Application US/10195071

```

?
? APPLICANT: Origene Technologies
? TITLE OF INVENTION: Full-length Serine Protein Kinase in Brain and Pancreas
? FILE REFERENCE: 160 101 C1
? CURRENT APPLICATION NUMBER: US/10/195,071
? CURRENT FILING DATE: 2002-07-15
? PRIOR APPLICATION NUMBER: US 09/930,181
? PRIOR FILING DATE: 2001-08-16
? NUMBER OF SEQ ID NOS: 18
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 14
? LENGTH: 50
? TYPE: DNA
? ORGANISM: Homo sapiens
US-10-195-071-14

```

Query Match	1.8%	Score 28.2	DB 41	Length 50
Best Similarity	73.5%	Pred. No. 6.2e+05		
Matches 36: Conservative	0	Mismatches 13	Indels 0	Gaps 0

**OY**    1336 GAGACCGGSGGGGACAGCGGGGGAACCGCGGGGGCGGCGGC    1384  
       || || |||| | | ||||||| | |||| ||||||| ||  
**Db**    1 GGGCGGGGGCGGGCCCTTCGGCGCGCGCGGGGGGCGGCGGAAAC    49

RESULT 8  
US-10-195-072-14  
Sequence 14, Application US/10195072

```

: APPLICANT: Origene Technologies
: TITLE OF INVENTION: Full-Length Serine Protein Kinase in Brain and Pancreas
: FILE REFERENCE: 16U 101 C2
: CURRENT APPLICATION NUMBER: US/10/195,072
: CURRENT FILING DATE: 2002-07-15
: PRIOR APPLICATION NUMBER: US 09/930,181
: PRIOR FILING DATE: 2001-08-16
: NUMBER OF SEQ ID NOS: 18
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 14
: LENGTH: 50
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-10-195-072-14

```

Query Match	1.8%	Score 28.2;	DB 41;	Length 50;
Best Local Similarity	73.5%;	Pred. No. 6.2e+05;		
Matches 36;	Conservative	0;	Mismatches 13;	Indels 0;
				Gaps 0.

**QY** 1336 GGACCGCCGGCGGAGCAGCGCGCGCGGCA CGCGGGGGCGGCGCGGC 1384  
|| || ||| | | ||||| | | ||| ||||| ||  
**Dd** 1 GCGCGGGGGCGGCGCTCGCGGCGGCGCGCGCGCGCGGAAC 49

RESULT 9  
US-09-590-211-7

; Sequence 7, Application US/09590211

```

GENERAL INFORMATION:
APPLICANT: Rouleau, Guy A.
APPLICANT: Brais, Bernard
TITLE OF INVENTION: Short GCG Expansions in the PAB II Gene
TITLE OF INVENTION: for Oculopharyngeal Muscular Dystrophy and Diagnostic
TITLE OF INVENTION: Thereof
INVENTOR: 2078 1000-000

```

FILE REFERENCE: 3026-1000-0000  
CURRENT APPLICATION NUMBER: US/09/590, 211  
CURRENT FILING DATE: 2000-06-08  
PRIOR APPLICATION NUMBER: PCT/CA98/01133  
PRIOR FILING DATE: 1998-12-07  
PRIOR APPLICATION NUMBER: 2,218,199  
PRIOR FILING DATE: 1997-12-09  
NUMBER OF SEQ ID NOS: 21  
SOFTWARE: FastSeq for Windows Version 4.0.0

```
; SEQ ID NO 7
; LENGTH: 39
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-590-211-7
```

Query Match	1.78;	Score 27.4;	DB 22;	Length 39;
Best Local Similarity	83.8%;	Pred. No. 8.4e+05;		
Matches 31; Conservative	0;	Mismatches 6;	Indels 0;	Gaps 0

DQ 1349 GACAGCGGCGGGGACCGGGGGCGGCGGCACA 1385  
DY | | | | | | | | | | | | | | | | | |  
Db 3 GGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCA 39

RESULT 10  
US-09-590-211A-7  
US-09-590-211A-7

```

? APPLICANT: Rouleau, Guy A.
? APPLICANT: Brais, Bernard
? TITLE OF INVENTION: SHORT GCG EXPANSIONS IN THE PAB II GENE
? TITLE OF INVENTION: FOR OCULOPHARYNGEAL MUSCULAR DYSTROPHY AND DIAGNOSTIC THEREOF
? FILE REFERENCE: 3028, 1000-000
? CURRENT APPLICATION NUMBER: US/09/590,211A
? CURRENT FILING DATE: 2000-06-08
? PRIOR APPLICATION NUMBER: PCT/CA98/01133
? PRIOR FILING DATE: 1998-12-07
? PRIOR APPLICATION NUMBER: 2,218,199
? PRIOR FILING DATE: 1997-12-09
? NUMBER OF SEQ ID NOS: 21
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 7
? LENGTH: 39
? TYPE: DNA
? ORGANISM: Homo sapiens
? US-09-590-211A-7

```

Query Match	1.7%;	Score 27.4;	DB 22;	Length 39;
Best Local Similarity	83.8%;	Pred. No. 8.4e+05;		
Matches 31;	Conservative	0;	Mismatches 6;	Indels 0;
				Gaps 0;

**OY**     **1349** GACAGCGGCGGGGAGCCCGGGGGGCGGCACA **1385**

            | | |||||                | ||||| |||||

**Dd**       **3** GCCGGCGGCGGGCGGCGGCGGCGGCGGCACA **39**

RESULT 11  
US-09-992-665-289/c  
; Sequence 289, Application US/09992665

1  
 2 APPLICANT: NADA FARM  
 3 TITLE OF INVENTION: PROFILING TUMOR SPECIFIC MARKERS FOR THE  
 4 TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF NEOPLASTIC DISEASE  
 5 FILE REFERENCE: CEMINES.002A  
 6 CURRENT APPLICATION NUMBER: US/09/992.665  
 7 CURRENT FILING DATE: 2001-11-13  
 8

;; PRIOR APPLICATION NUMBER: 60/249,508  
;; PRIOR FILING DATE: 2000-11-16  
;; NUMBER OF SEQ ID NOS: 380  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 289  
;; LENGTH: 27  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Probe  
US-09-992-665-289

Query Match  
Best Local Similarity 1.7%; Score 27; DB 37; Length 27;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 755 TCGGCCACGGTGCACCGGACGAGGC 781  
Db 27 TCGGCCACGGTGCACCGGACGAGGC 1

RESULT 12  
US-09-590-211-6  
;; Sequence 6, Application US/09590211  
;; GENERAL INFORMATION:  
;; APPLICANT: Rouleau, Guy A.  
;; TITLE OF INVENTION: Short GCG Expansions in the PAB II Gene  
;; TITLE OF INVENTION: for Oculopharyngeal Muscular Dystrophy and Diagnostic  
;; FILE REFERENCE: 3028.1000-000  
;; CURRENT APPLICATION NUMBER: US/09/590,211  
;; PRIOR FILING DATE: 2000-06-08  
;; PRIOR APPLICATION NUMBER: PCT/CA98/01133  
;; PRIOR FILING DATE: 1998-12-07  
;; PRIOR APPLICATION NUMBER: 2,218,199  
;; NUMBER OF SEQ ID NOS: 21  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 6  
;; LENGTH: 36  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-590-211-6

Query Match  
Best Local Similarity 1.7%; Score 26.6; DB 22; Length 36;  
Matches 29; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1353 GCGGCGGCGGACCGCGGCGGCGGCGCA 1385  
Db 4 GCGGCGGCGGACCGCGGCGGCGGCGCA 36

RESULT 13  
US-09-590-211A-6  
;; Sequence 6, Application US/09590211A  
;; GENERAL INFORMATION:  
;; APPLICANT: Rouleau, Guy A.  
;; APPLICANT: Brais, Bernard  
;; TITLE OF INVENTION: SHORT GCG EXPANSIONS IN THE PAB II GENE  
;; TITLE OF INVENTION: FOR OCULOPHARYNGEAL MUSCULAR DYSTROPHY AND DIAGNOSTIC THEREOF  
;; FILE REFERENCE: 3028.1000-000  
;; CURRENT APPLICATION NUMBER: US/09/590,211A  
;; PRIOR FILING DATE: 2000-06-08  
;; PRIOR APPLICATION NUMBER: PCT/CA98/01133  
;; PRIOR FILING DATE: 1998-12-07  
;; PRIOR APPLICATION NUMBER: 2,218,199  
;; PRIOR FILING DATE: 1997-12-09  
;; NUMBER OF SEQ ID NOS: 21  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 6  
;; LENGTH: 36

;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
US-09-590-211A-6

Query Match  
Best Local Similarity 1.7%; Score 26.6; DB 22; Length 36;  
Matches 29; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1353 GCGGCGGCGGACCGCGGCGGCGGCGCA 1385  
Db 4 GCGGCGGCGGACCGCGGCGGCGGCGCA 36

RESULT 14  
US-09-423-041A-2/c  
;; Sequence 2, Application US/09423041A  
;; GENERAL INFORMATION:  
;; APPLICANT: Cassandra L. Smith  
;; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TARGETED  
;; TITLE OF INVENTION: DNA DIFFERENTIAL DISPLAY  
;; FILE REFERENCE: BU-042xx  
;; CURRENT APPLICATION NUMBER: US/09/423,041A  
;; PRIOR FILING DATE: 2000-04-05  
;; PRIOR APPLICATION NUMBER: PCT/US98/08616  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: US60/045,078  
;; PRIOR FILING DATE: 1997-04-29  
;; NUMBER OF SEQ ID NOS: 44  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 2  
;; LENGTH: 36  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Probe/Primer  
US-09-423-041A-2

Query Match  
Best Local Similarity 1.7%; Score 26.4; DB 18; Length 36;  
Matches 30; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1351 CAGCGCGGCGGACCGCGGCGGCGGCGGCG 1386  
Db 36 CAGCGCGGCGGACCGCGGCGGCGGCGGCG 1

RESULT 15  
PCT-US00-19843-13  
;; Sequence 13, Application PC/TUS0019843  
;; GENERAL INFORMATION:  
;; APPLICANT: Herr, John C.  
;; APPLICANT: Norton, Elizabeth J.  
;; TITLE OF INVENTION: Recombinant Antibody Directed Against Human Sperm  
;; TITLE OF INVENTION: Antigen  
;; FILE REFERENCE: 00415-02  
;; CURRENT APPLICATION NUMBER: PCT/US00/19843  
;; PRIOR FILING DATE: 2000-07-21  
;; PRIOR APPLICATION NUMBER: 60/145,512  
;; PRIOR FILING DATE: 1999-07-23  
;; NUMBER OF SEQ ID NOS: 18  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 13  
;; LENGTH: 45  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Description of Artificial Sequence:nucleic acid  
PCT-US00-19843-13

Query Match  
Best Local Similarity 1.7%; Score 26.4; DB 1; Length 45;  
Matches 75.0%; Pred. No. 1.2e+06;



```
DESCRIPTION: /desc = "DNA"
US-08-715-713-17
```

RESULT 24  
US-09-396-196F-6718J

[illegible]

; Sequence 67183, Application US/09396196F  
; GENERAL INFORMATION:  
; APPLICANT: Michael Miltmann  
; APPLICANT: David Mack  
; APPLICANT: David Lockhart  
; APPLICANT: Affymetrix, Inc.  
; TITLE OF INVENTION: Methods of Genetic Analysis  
; FILE REFERENCE: 3101.1  
; CURRENT APPLICATION NUMBER: US/09/396,196F  
; CURRENT FILING DATE: 2001-09-15  
; PRIOR APPLICATION NUMBER: 60/100,678  
; PRIOR FILING DATE: 1998-09-17  
; NUMBER OF SEQ ID NOS: 127806  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 67183  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: mus musculus  
; US-09-396-196F-67183

Query Match 1.6%; Score 25; DB 17; Length 25;  
Best Local Similarity 100.0%; Pred. No. 2.1e+06;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1206 GCACCATTCATCAACCGGTGCT 1230  
|||||  
Db 1 GCACCATTCATCAACCGGTGCT 25

RESULT 25  
; US-09-396-196G-67173  
; Sequence 67173, Application US/09396196G  
; GENERAL INFORMATION:  
; APPLICANT: Michael Miltmann  
; APPLICANT: David Mack  
; APPLICANT: David Lockhart  
; APPLICANT: Affymetrix, Inc.  
; TITLE OF INVENTION: Methods of Genetic Analysis  
; FILE REFERENCE: 3101.1  
; CURRENT APPLICATION NUMBER: US/09/396,196G  
; CURRENT FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: 60/100,678  
; PRIOR FILING DATE: 1998-09-17  
; NUMBER OF SEQ ID NOS: 127806  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 67173  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: mus musculus  
; US-09-396-196G-67173

Query Match 1.6%; Score 25; DB 17; Length 25;  
Best Local Similarity 100.0%; Pred. No. 2.1e+06;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1443 GCATCCACTGTACTCGACTGCT 1467  
|||||  
Db 1 GCATCCACTGTACTCGACTGCT 25

Search completed: March 14, 2003, 01:02:17  
Job time : 3791 secs

GenCore version 5.1.4-p5-4578  
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 21:59:18 ; Search time 476 Seconds  
(without alignments)  
7520.095 Million cell updates/sec

Title: US-10-001-844-3  
Perfect score: 1576  
Sequence: 1 ggcagagcagccagcagagga.....gagggcgcgaggggagc 1576

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4665808 seqs, 1135648920 residues

Total number of hits satisfying chosen parameters: 7025612

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 1000 summaries

Database :

Pending Patents NA New: \*  
1: /cgn2\_6/prodata/1/pna/PCT\_NEW\_COMB.seq: \*  
2: /cgn2\_6/prodata/1/pna/US06\_NEW\_COMB.seq: \*  
3: /cgn2\_6/prodata/1/pna/US07\_NEW\_COMB.seq: \*  
4: /cgn2\_6/prodata/1/pna/US08\_NEW\_COMB.seq: \*  
5: /cgn2\_6/prodata/1/pna/US09\_NEW\_COMB.seq: \*  
6: /cgn2\_6/prodata/1/pna/US09\_NEW\_COMB.seq: \*  
7: /cgn2\_6/prodata/1/pna/US10\_NEW\_COMB.seq: \*  
8: /cgn2\_6/prodata/1/pna/US10\_NEW\_COMB.seq: \*  
9: /cgn2\_6/prodata/1/pna/US60\_NEW\_COMB.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	30	1.9	30	US-10-001-844-6	Sequence 6, Appl1
2	26.4	1.7	44	US-10-287-787-7843	Sequence 7843, Ap
3	26	1.6	46	US-10-299-054A-10448	Sequence 10448, A
4	25.6	1.6	43	US-10-299-054A-10430	Sequence 10430, A
5	25.6	1.6	43	US-10-299-054A-10431	Sequence 10431, A
6	25.6	1.6	43	US-10-299-054A-10449	Sequence 10449, A
7	25.6	1.6	43	US-10-299-054A-10450	Sequence 10450, A
8	25.6	1.6	50	US-10-126-448-2	Sequence 2, Appl1
9	25	1.6	25	US-10-303-778-10110	Sequence 10110, A
10	25	1.6	25	US-60-427-808-296803	Sequence 296803, A
11	25	1.6	25	US-60-427-808-634065	Sequence 634065, A
12	25	1.6	25	US-60-427-808-634064	Sequence 634064, A
13	25	1.6	25	US-60-427-808-765746	Sequence 765746, A
14	25	1.6	25	US-60-427-808-807373	Sequence 807373, A
15	25	1.6	25	US-60-427-808-879497	Sequence 879497, A
16	25	1.6	25	US-60-427-836-90500	Sequence 90500, A
17	25	1.6	25	US-60-427-836-238304	Sequence 238304, A
18	25	1.6	25	US-60-427-836-454484	Sequence 454484, A
19	25	1.6	25	US-60-427-836-454484	Sequence 454484, A
20	25	1.6	25	US-60-427-836-454484	Sequence 454484, A
21	25	1.6	25	US-60-427-836-454484	Sequence 454484, A
22	25	1.6	25	US-60-427-836-454484	Sequence 454484, A
23	25	1.6	25	US-60-427-836-454484	Sequence 454484, A
24	25	1.6	25	US-60-427-836-454484	Sequence 454484, A

25	23.4	1.5	25	US-60-427-836-591791	Sequence 591791, A
26	23.4	1.5	42	US-10-299-054A-7072	Sequence 7072, Ap
27	23.4	1.5	42	US-10-299-054A-8125	Sequence 8125, Ap
28	23.4	1.5	48	US-10-299-054A-6989	Sequence 6989, Ap
29	23	1.5	49	US-10-299-054A-2490	Sequence 2490, Ap
30	23	1.5	50	PCT-US03-02612-96	Sequence 18, Appl
31	23	1.5	41	US-10-287-787-12533	Sequence 96, Appl
32	22.8	1.4	45	US-10-299-054A-10693	Sequence 10693, A
33	22.8	1.4	48	US-10-299-054A-10634	Sequence 10634, A
34	22.8	1.4	50	US-10-299-054A-7061	Sequence 7061, Ap
35	22.8	1.4	30	US-10-281-513-332	Sequence 332, Ap
36	22.6	1.4	45	US-10-299-054A-9407	Sequence 9407, Ap
37	22.6	1.4	46	US-10-299-054A-3300	Sequence 3300, Ap
38	22.6	1.4	50	US-09-513-999C-30835	Sequence 30835, A
39	22.6	1.4	50	US-09-912-293-18324	Sequence 18324, A
40	22.6	1.4	50	US-09-912-293-104036	Sequence 104036, A
41	22.6	1.4	25	US-60-427-808-825912	Sequence 825912, A
42	22.4	1.4	40	US-10-299-054A-10610	Sequence 10610, A
43	22.4	1.4	40	US-10-299-054A-10612	Sequence 10611, A
44	22.4	1.4	40	US-10-299-054A-10613	Sequence 10612, A
45	22.4	1.4	40	US-10-299-054A-10614	Sequence 10613, A
46	22.4	1.4	40	US-10-299-054A-10615	Sequence 10614, A
47	22.4	1.4	40	US-10-299-054A-10616	Sequence 10615, A
48	22.4	1.4	39	US-09-548-797B-146	Sequence 10467, A
49	22.2	1.4	41	US-10-277-216-383	Sequence 146, App
50	22.2	1.4	50	US-60-288-292-9341	Sequence 383, App
51	22.2	1.4	39	US-10-164-282-19	Sequence 9341, Ap
52	22.2	1.4	39	US-10-299-054A-1613	Sequence 1613, Ap
53	22	1.4	39	US-10-299-054A-9444	Sequence 9444, Ap
54	22	1.4	25	US-60-427-808-121711	Sequence 121711, A
55	22	1.4	25	US-60-427-808-765747	Sequence 765747, A
56	21.8	1.4	25	US-60-427-808-807374	Sequence 807374, A
57	21.8	1.4	25	US-60-427-808-829329	Sequence 829329, A
58	21.8	1.4	25	US-60-427-808-879498	Sequence 879498, A
59	21.8	1.4	25	US-60-427-836-90499	Sequence 90499, A
60	21.8	1.4	25	US-60-427-836-90499	Sequence 90499, A
61	21.8	1.4	25	US-60-427-836-90499	Sequence 90499, A
62	21.8	1.4	25	US-60-427-836-90499	Sequence 90499, A
63	21.8	1.4	25	US-60-427-836-90499	Sequence 90499, A
64	21.8	1.4	25	US-60-427-836-90499	Sequence 90499, A
65	21.8	1.4	25	US-60-427-836-90499	Sequence 90499, A
66	21.8	1.4	41	US-10-299-054A-10705	Sequence 10705, A
67	21.8	1.4	41	US-10-299-054A-10706	Sequence 10706, A
68	21.8	1.4	41	US-10-299-054A-10707	Sequence 10707, A
69	21.8	1.4	41	US-10-299-054A-10708	Sequence 10708, A
70	21.8	1.4	41	US-10-299-054A-10709	Sequence 10709, A
71	21.6	1.4	43	US-10-299-054A-9427	Sequence 9427, Ap
72	21.6	1.4	43	US-10-299-054A-9464	Sequence 9464, Ap
73	21.6	1.4	43	US-10-299-054A-12230	Sequence 12230, A
74	21.6	1.4	43	US-10-299-054A-6233	Sequence 6233, Ap
75	21.6	1.4	43	US-10-299-054A-10665	Sequence 10665, A
76	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
77	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
78	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
79	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
80	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
81	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
82	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
83	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
84	21.2	1.3	43	US-10-299-054A-7349	Sequence 7349, Ap
85	21.2	1.3	43	US-10-299-054A-8103	Sequence 8103, Ap
86	21.2	1.3	43	US-10-299-054A-3265	Sequence 3265, Ap
87	21.2	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
88	21.2	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
89	21.2	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
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91	21	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
92	21	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
93	21	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
94	21	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
95	20.8	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
96	20.8	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap
97	20.8	1.3	43	US-10-299-054A-4273	Sequence 4273, Ap

C 98	20.8	1.3	42	7	US-10-299-054A-4333	Sequence 4333, Ap	C 171	20	1.3	20	8	US-10-001-844-35	Sequence 35, Appl
C 99	20.8	1.3	46	7	US-10-299-054A-7060	Sequence 7060, Ap	C 172	20	1.3	20	8	US-10-001-844-36	Sequence 36, Appl
C 100	20.8	1.3	46	7	US-10-287-787-9487	Sequence 9487, Ap	C 173	20	1.3	20	8	US-10-001-844-37	Sequence 37, Appl
C 101	20.8	1.3	48	7	US-10-299-054A-10445	Sequence 10445, A	C 174	20	1.3	20	8	US-10-001-844-38	Sequence 38, Appl
C 102	20.8	1.3	48	7	US-10-299-054A-10464	Sequence 10464, A	C 175	20	1.3	20	8	US-10-001-844-39	Sequence 39, Appl
C 103	20.8	1.3	48	7	US-10-187-394-33	Sequence 33, Appl	C 176	20	1.3	20	8	US-10-001-844-40	Sequence 40, Appl
C 104	20.8	1.3	50	7	US-10-287-787-9699	Sequence 9699, Ap	C 177	20	1.3	20	8	US-10-001-844-41	Sequence 41, Appl
C 105	20.8	1.3	50	7	US-10-287-787-26352	Sequence 26352, A	C 178	20	1.3	20	8	US-10-001-844-42	Sequence 42, Appl
C 106	20.6	1.3	38	7	US-10-299-054A-1159	Sequence 1159, Ap	C 179	20	1.3	20	8	US-10-001-844-43	Sequence 43, Appl
C 107	20.6	1.3	39	6	US-09-548-797B-145	Sequence 145, App	C 180	20	1.3	20	8	US-10-001-844-44	Sequence 44, Appl
C 108	20.6	1.3	39	6	US-10-367-892-20998	Sequence 20998, A	C 181	20	1.3	20	8	US-10-001-844-45	Sequence 45, Appl
C 109	20.6	1.3	41	8	US-10-277-216-251	Sequence 251, App	C 182	20	1.3	20	8	US-10-001-844-46	Sequence 46, Appl
C 110	20.6	1.3	45	7	US-10-299-054A-9465	Sequence 9465, Ap	C 183	20	1.3	20	8	US-10-001-844-47	Sequence 47, Appl
C 111	20.6	1.3	50	6	US-09-912-293-133717	Sequence 133717, Sequence 230617, Ap	C 184	20	1.3	20	8	US-10-001-844-48	Sequence 48, Appl
C 112	20.6	1.3	50	6	US-10-314-578-1096	Sequence 1096, Ap	C 185	20	1.3	20	8	US-10-001-844-49	Sequence 49, Appl
C 113	20.4	1.3	31	7	US-10-299-054A-10609	Sequence 10609, A	C 186	20	1.3	20	8	US-10-367-892-2219	Sequence 2219, Ap
C 114	20.4	1.3	32	7	US-10-367-892-4004	Sequence 4004, Ap	C 187	20	1.3	20	8	US-10-367-892-8624	Sequence 8624, Ap
C 115	20.4	1.3	32	7	US-09-888-326A-1172	Sequence 1172, App	C 188	20	1.3	20	8	US-10-332-542-15	Sequence 15, Appl
C 116	20.4	1.3	35	6	US-10-314-578-771	Sequence 771, App	C 189	20	1.3	20	8	US-10-367-892-6205	Sequence 6205, Ap
C 117	20.4	1.3	35	6	US-10-299-054A-2212	Sequence 2212, App	C 190	20	1.3	20	8	US-10-367-892-14921	Sequence 14921, A
C 118	20.4	1.3	38	7	US-10-287-787-22474	Sequence 22474, A	C 191	20	1.3	20	8	US-10-287-787-5968	Sequence 5968, Ap
C 119	20.4	1.3	38	7	US-10-299-054A-10598	Sequence 10598, A	C 192	20	1.3	20	8	US-10-287-787-5968	Sequence 122, App
C 120	20.4	1.3	40	7	US-10-287-787-4905	Sequence 4905, Ap	C 193	20	1.3	20	8	US-09-989-733-122	Sequence 122, App
C 121	20.4	1.3	40	7	US-10-287-787-4905	Sequence 4905, Ap	C 194	20	1.3	20	8	US-10-299-054A-8129	Sequence 8129, App
C 122	20.4	1.3	41	7	US-10-367-892-14922	Sequence 14922, A	C 195	20	1.3	20	8	US-10-299-054A-8129	Sequence 6, Appl
C 123	20.4	1.3	41	7	US-10-224-651A-15	Sequence 15, Appl	C 196	20	1.3	20	8	US-09-785-632B-6	Sequence 9753, Ap
C 124	20.4	1.3	42	8	US-10-287-787-12769	Sequence 12769, A	C 197	20	1.3	20	8	US-10-299-054A-9753	Sequence 21186, A
C 125	20.4	1.3	44	7	US-10-367-892-12335	Sequence 12335, A	C 198	20	1.3	20	8	US-10-310-188-74357	Sequence 74357, A
C 126	20.4	1.3	45	7	US-10-299-054A-9746	Sequence 9746, Ap	C 199	20	1.3	20	8	US-10-287-787-13541	Sequence 13541, A
C 127	20.4	1.3	46	7	US-10-367-892-11618	Sequence 11618, A	C 200	20	1.3	20	8	US-10-287-787-13541	Sequence 9491, Ap
C 128	20.4	1.3	48	7	US-10-367-892-67368	Sequence 67368, A	C 201	20	1.3	20	8	US-10-299-054A-9491	Sequence 9491, Ap
C 129	20.4	1.3	50	6	US-09-912-293-67368	Sequence 10599, A	C 202	20	1.3	20	8	US-10-299-054A-9419	Sequence 9419, Ap
C 130	20.4	1.3	50	6	US-10-299-054A-10599	Sequence 5127, Ap	C 203	20	1.3	20	8	US-10-299-054A-9419	Sequence 1, Appl
C 131	20.2	1.3	25	9	US-10-329-624-5127	Sequence 823928, A	C 204	20	1.3	20	8	US-09-705-552A-1	Sequence 33448, A
C 132	20.2	1.3	25	9	US-60-427-808-52328	Sequence 52328, A	C 205	20	1.3	20	8	US-60-288-292-32448	Sequence 48904, A
C 133	20.2	1.3	25	9	US-60-427-836-590247	Sequence 590247, A	C 206	20	1.3	20	8	US-09-912-293-48904	Sequence 9874, Ap
C 134	20.2	1.3	30	7	US-10-287-787-23287	Sequence 23287, A	C 207	20	1.3	20	8	US-10-367-892-8874	Sequence 8874, Ap
C 135	20.2	1.3	33	7	US-10-287-787-16472	Sequence 16472, A	C 208	20	1.3	20	8	US-10-310-188-48780	Sequence 48780, A
C 136	20.2	1.3	41	7	US-60-416-172-117	Sequence 117, App	C 209	20	1.3	20	8	US-10-367-892-12752	Sequence 12752, A
C 137	20.2	1.3	41	7	US-10-299-054A-2492	Sequence 1598, Ap	C 210	20	1.3	20	8	US-10-367-892-12752	Sequence 12752, A
C 138	20.2	1.3	41	7	US-10-287-787-1598	Sequence 1598, Ap	C 211	20	1.3	20	8	US-10-299-054A-1327	Sequence 1327, Ap
C 139	20.2	1.3	41	7	US-10-287-787-23892	Sequence 23892, A	C 212	20	1.3	20	8	US-10-299-054A-1327	Sequence 12751, A
C 140	20.2	1.3	42	7	US-10-299-054A-2491	Sequence 2491, Ap	C 213	20	1.3	20	8	US-10-367-892-12751	Sequence 4273, Ap
C 141	20.2	1.3	43	7	US-10-299-054A-3309	Sequence 3309, Ap	C 214	20	1.3	20	8	US-10-367-892-12751	Sequence 1844, Ap
C 142	20.2	1.3	45	7	US-10-367-892-22163	Sequence 22163, A	C 215	20	1.3	20	8	US-10-299-054A-4273	Sequence 8, Appl
C 143	20.2	1.3	45	7	US-10-299-054A-6232	Sequence 6232, A	C 216	20	1.3	20	8	US-09-762-862-8	Sequence 8, Appl
C 144	20.2	1.3	45	7	US-10-299-054A-10719	Sequence 10719, A	C 217	20	1.3	20	8	US-10-762-862-8	Sequence 8, Appl
C 145	20.2	1.3	50	7	US-10-299-054A-10698	Sequence 10698, A	C 218	20	1.3	20	8	US-09-912-293-18731	Sequence 18731, A
C 146	20.2	1.3	20	8	US-10-001-844-10	Sequence 10, Appl	C 219	20	1.3	20	8	US-09-912-293-205920	Sequence 205920, A
C 147	20.2	1.3	20	8	US-10-001-844-11	Sequence 11, Appl	C 220	20	1.3	20	8	US-10-287-787-21723	Sequence 21723, A
C 148	20.2	1.3	20	8	US-10-001-844-12	Sequence 12, Appl	C 221	20	1.3	20	8	US-10-325-899-181	Sequence 181, App
C 149	20.2	1.3	20	8	US-10-001-844-13	Sequence 13, Appl	C 222	20	1.3	20	8	US-10-303-778-11706	Sequence 11706, A
C 150	20.2	1.3	20	8	US-10-001-844-14	Sequence 14, Appl	C 223	20	1.3	20	8	US-10-299-054A-7050	Sequence 7050, Ap
C 151	20.2	1.3	20	8	US-10-001-844-15	Sequence 15, Appl	C 224	20	1.3	20	8	PCR-US02-4828-185	Sequence 185, App
C 152	20.2	1.3	20	8	US-10-001-844-16	Sequence 16, Appl	C 225	20	1.3	20	8	US-10-299-054A-5405	Sequence 5405, Ap
C 153	20.2	1.3	20	8	US-10-001-844-17	Sequence 17, Appl	C 226	20	1.3	20	8	US-10-299-054A-5406	Sequence 5406, Ap
C 154	20.2	1.3	20	8	US-10-001-844-18	Sequence 18, Appl	C 227	20	1.3	20	8	US-10-299-054A-5407	Sequence 5407, Ap
C 155	20.2	1.3	20	8	US-10-001-844-19	Sequence 19, Appl	C 228	20	1.3	20	8	US-10-299-054A-5407	Sequence 10600, A
C 156	20.2	1.3	20	8	US-10-001-844-20	Sequence 20, Appl	C 229	20	1.3	20	8	US-10-367-892-11707	Sequence 11707, A
C 157	20.2	1.3	20	8	US-10-001-844-21	Sequence 21, Appl	C 230	20	1.3	20	8	US-10-367-892-25167	Sequence 25167, A
C 158	20.2	1.3	20	8	US-10-001-844-22	Sequence 22, Appl	C 231	20	1.3	20	8	US-10-287-787-22294	Sequence 22294, A
C 159	20.2	1.3	20	8	US-10-001-844-23	Sequence 23, Appl	C 232	20	1.3	20	8	US-10-287-787-22294	Sequence 3826, Ap
C 160	20.2	1.3	20	8	US-10-001-844-24	Sequence 24, Appl	C 233	20	1.3	20	8	US-10-299-054A-3826	Sequence 10674, A
C 161	20.2	1.3	20	8	US-10-001-844-25	Sequence 25, Appl	C 234	20	1.3	20	8	US-10-299-054A-3826	Sequence 1357, A
C 162	20.2	1.3	20	8	US-10-001-844-26	Sequence 26, Appl	C 235	20	1.3	20	8	US-10-287-787-405	Sequence 405, App
C 163	20.2	1.3	20	8	US-10-001-844-27	Sequence 27, Appl	C 236	20	1.3	20	8	US-10-287-787-405	Sequence 2037, Ap
C 164	20.2	1.3	20	8	US-10-001-844-28	Sequence 28, Appl	C 237	20	1.3	20	8	US-10-349-143-2552	Sequence 2552, Ap
C 165	20.2	1.3	20	8	US-10-001-844-29	Sequence 29, Appl	C 238	20	1.3	20	8	US-10-299-054A-10530	Sequence 10530, A
C 166	20.2	1.3	20	8	US-10-001-844-30	Sequence 30, Appl	C 239	20	1.3	20	8	US-10-287-787-20144	Sequence 20144, A
C 167	20.2	1.3	20	8	US-10-001-844-31	Sequence 31, Appl	C 240	20	1.3	20	8	US-09-765-555A-25	Sequence 25, Appl
C 168	20.2	1.3	20	8	US-10-001-844-32	Sequence 32, Appl	C 241	20	1.3	20	8	US-09-912-293-171148	Sequence 171148, A
C 169	20.2	1.3	20	8	US-10-001-844-33	Sequence 33, Appl	C 242	20	1.3	20	8	US-10-299-054A-8379	Sequence 8379, Ap
C 170	20.2	1.3	20	8	US-10-001-844-34	Sequence 34, Appl	C 243	20	1.3	20	8		



244	19.4	1.2	50	7	US-10-287-787-8559	Sequence 8559, Ap	C 317	19	1.2	45	7	US-10-299-054A-5126	Sequence 5126, Ap
245	19.4	1.2	50	8	US-10-325-899-523	Sequence 523, Ap	C 318	19	1.2	45	8	US-10-089-058-60	Sequence 60, Ap
246	19.2	1.2	24	8	US-10-310-188-48644	Sequence 48644, A	C 319	19	1.2	45	8	US-10-089-058A-60	Sequence 60, Ap
247	19.2	1.2	24	8	US-10-310-188-48659	Sequence 48659, A	C 320	19	1.2	47	6	US-09-785-6328-7	Sequence 7, Ap
248	19.2	1.2	25	8	US-10-355-577-63773	Sequence 63773, A	C 321	19	1.2	47	6	US-10-299-054A-10800	Sequence 10800, A
249	19.2	1.2	25	9	US-60-427-808-83180	Sequence 83180, A	C 322	19	1.2	47	6	US-10-299-054A-10806	Sequence 10806, A
C 250	19.2	1.2	25	9	US-60-427-836-225534	Sequence 225534, A	C 323	19	1.2	48	6	US-09-708-5056A-16	Sequence 16, Ap
C 251	19.2	1.2	25	9	US-60-427-836-225534	Sequence 225534, A	C 324	19	1.2	48	6	US-10-367-892-50520	Sequence 50520, A
C 252	19.2	1.2	25	9	US-60-427-836-244066	Sequence 244066, A	C 325	19	1.2	48	7	US-10-367-892-50520	Sequence 50520, A
C 253	19.2	1.2	25	9	US-60-427-836-285452	Sequence 285452, A	C 326	19	1.2	49	7	US-10-367-892-50520	Sequence 50520, A
C 254	19.2	1.2	32	8	US-10-270-524-20	Sequence 20, Ap	C 327	19	1.2	50	8	US-10-287-787-22173	Sequence 22173, A
C 255	19.2	1.2	33	7	US-10-299-054A-10857	Sequence 10857, A	C 328	19	1.2	22	8	US-10-310-188-29562	Sequence 29562, A
C 256	19.2	1.2	34	7	US-10-299-054A-3310	Sequence 3310, Ap	C 329	19	1.2	25	9	US-60-427-836-654281	Sequence 654281, A
C 257	19.2	1.2	34	7	US-10-287-787-16578	Sequence 16578, A	C 330	19	1.2	30	7	US-10-367-892-18092	Sequence 18092, A
C 258	19.2	1.2	38	7	US-10-367-892-12802	Sequence 12802, A	C 331	19	1.2	32	7	US-10-299-054A-5501	Sequence 5501, Ap
C 259	19.2	1.2	38	7	US-10-299-054A-7692	Sequence 7692, A	C 332	19	1.2	32	7	US-10-299-054A-5500	Sequence 5500, Ap
C 260	19.2	1.2	39	7	US-10-299-054A-10622	Sequence 10622, A	C 333	19	1.2	33	7	US-10-299-054A-5500	Sequence 5500, Ap
C 261	19.2	1.2	39	7	US-10-299-054A-10622	Sequence 10622, A	C 334	19	1.2	33	7	US-10-299-054A-5500	Sequence 5500, Ap
C 262	19.2	1.2	39	7	US-10-299-054A-10622	Sequence 10622, A	C 335	19	1.2	33	7	US-10-299-054A-5500	Sequence 5500, Ap
C 263	19.2	1.2	40	7	US-10-367-892-9687	Sequence 9687, A	C 336	19	1.2	38	7	US-10-299-054A-5500	Sequence 5500, Ap
C 264	19.2	1.2	40	7	US-10-367-892-9687	Sequence 9687, A	C 337	19	1.2	39	7	US-10-299-054A-11189	Sequence 11189, A
C 265	19.2	1.2	40	7	US-10-287-787-11738	Sequence 11738, A	C 338	19	1.2	39	8	US-10-305-275A-1473	Sequence 1473, Ap
C 266	19.2	1.2	41	8	US-10-287-787-13882	Sequence 13882, A	C 339	19	1.2	40	6	US-09-875-082-75	Sequence 75, Ap
C 267	19.2	1.2	41	8	US-10-310-157-2531	Sequence 2531, Ap	C 340	19	1.2	40	6	US-09-875-082-75	Sequence 75, Ap
C 268	19.2	1.2	42	7	US-10-299-054A-10675	Sequence 10675, A	C 341	19	1.2	40	6	US-10-299-054A-11190	Sequence 11190, A
C 269	19.2	1.2	42	8	US-10-316-956-236	Sequence 236, Ap	C 342	19	1.2	40	6	US-10-367-892-19413	Sequence 19413, A
C 270	19.2	1.2	44	8	US-10-316-956-236	Sequence 236, Ap	C 343	19	1.2	41	7	US-10-367-892-19413	Sequence 19413, A
C 271	19.2	1.2	45	7	US-10-367-892-21770	Sequence 21770, A	C 344	19	1.2	41	7	US-10-299-054A-1078	Sequence 1078, A
C 272	19.2	1.2	46	7	US-10-287-787-12519	Sequence 12519, A	C 345	19	1.2	41	7	US-10-299-054A-1078	Sequence 1078, A
C 273	19.2	1.2	47	7	US-10-299-054A-2372	Sequence 2372, Ap	C 346	19	1.2	41	7	US-10-299-054A-1078	Sequence 1078, A
C 274	19.2	1.2	48	7	US-10-299-054A-9829	Sequence 9829, Ap	C 347	19	1.2	41	9	US-60-449-135-502	Sequence 502, Ap
C 275	19.2	1.2	48	7	US-10-299-054A-9830	Sequence 9830, Ap	C 348	19	1.2	42	1	PCT-US02-41414-946	Sequence 946, Ap
C 276	19.2	1.2	48	7	US-10-299-054A-9830	Sequence 9830, Ap	C 349	19	1.2	42	1	US-10-132-295-4	Sequence 295, Ap
C 277	19.2	1.2	48	7	US-10-287-787-11584	Sequence 11584, A	C 350	19	1.2	42	8	US-10-209-208-65	Sequence 65, Ap
C 278	19.2	1.2	49	7	US-10-367-892-20906	Sequence 20906, A	C 351	19	1.2	43	7	US-10-367-892-11913	Sequence 11913, A
C 279	19.2	1.2	50	6	US-09-912-293-234351	Sequence 234351, A	C 352	19	1.2	43	9	US-60-288-292-7836	Sequence 7836, Ap
C 280	19.2	1.2	50	8	US-10-287-787-9699	Sequence 9699, Ap	C 353	19	1.2	45	7	US-10-299-054A-5504	Sequence 5504, Ap
C 281	19.2	1.2	50	8	US-10-325-899-3427	Sequence 3427, Ap	C 354	19	1.2	45	7	US-10-299-054A-5505	Sequence 5505, Ap
C 282	19.2	1.2	19	6	US-09-825-135A-5	Sequence 5, Ap	C 355	19	1.2	46	7	US-10-299-054A-3272	Sequence 3272, Ap
C 283	19.2	1.2	19	6	US-09-825-135A-5	Sequence 5, Ap	C 356	19	1.2	46	7	US-10-299-054A-3272	Sequence 3272, Ap
C 284	19.2	1.2	19	6	US-10-303-778-3424	Sequence 3424, Ap	C 357	19	1.2	46	7	US-10-299-054A-3272	Sequence 3272, Ap
C 285	19.2	1.2	19	8	US-10-310-188-5772	Sequence 5772, Ap	C 358	19	1.2	46	7	US-10-299-054A-4356	Sequence 4356, Ap
C 286	19.2	1.2	19	8	US-10-310-188-60793	Sequence 60793, A	C 359	19	1.2	46	7	US-10-299-054A-10269	Sequence 10269, A
C 287	19.2	1.2	29	7	US-10-299-054A-7038	Sequence 7038, A	C 360	19	1.2	46	7	US-10-287-787-13357	Sequence 13357, A
C 288	19.2	1.2	30	7	US-10-367-892-11708	Sequence 11708, A	C 361	19	1.2	47	6	US-09-875-082-56	Sequence 56, Ap
C 289	19.2	1.2	30	8	US-10-164-282-18	Sequence 18, Ap	C 362	19	1.2	47	6	US-09-875-082-56	Sequence 56, Ap
C 290	19.2	1.2	33	8	US-10-299-054A-740	Sequence 740, Ap	C 363	19	1.2	47	7	US-10-299-054A-5127	Sequence 5127, Ap
C 291	19.2	1.2	36	8	US-10-278-060-2	Sequence 2, Ap	C 364	19	1.2	47	7	US-10-299-054A-8127	Sequence 8127, Ap
C 292	19.2	1.2	38	7	US-10-299-054A-2610	Sequence 2610, Ap	C 365	19	1.2	47	7	US-10-287-787-937	Sequence 937, Ap
C 293	19.2	1.2	38	7	US-10-299-054A-10480	Sequence 10480, A	C 366	19	1.2	47	8	US-10-287-787-26431	Sequence 26431, A
C 294	19.2	1.2	38	7	US-10-299-054A-10481	Sequence 10481, A	C 367	19	1.2	47	8	US-10-349-143-2716	Sequence 2716, Ap
C 295	19.2	1.2	39	7	US-10-299-054A-9732	Sequence 9732, A	C 368	19	1.2	49	7	US-10-287-787-4251	Sequence 4251, A
C 296	19.2	1.2	39	7	US-10-299-054A-10479	Sequence 10479, A	C 369	19	1.2	50	6	US-09-912-293-120093	Sequence 120093, A
C 297	19.2	1.2	39	8	US-10-343-561-141	Sequence 141, Ap	C 370	19	1.2	50	8	US-10-322-160-180	Sequence 160, Ap
C 298	19.2	1.2	40	1	PCT-US02-26708-53	Sequence 53, Ap	C 371	19	1.2	50	8	US-10-325-899-1563	Sequence 1563, Ap
C 299	19.2	1.2	40	6	US-09-548-797B-170	Sequence 170, Ap	C 372	19	1.2	50	8	US-10-325-899-1563	Sequence 1563, Ap
C 300	19.2	1.2	40	7	US-10-367-892-24521	Sequence 24521, A	C 373	19	1.2	25	8	US-10-098-2638-66408	Sequence 66408, A
C 301	19.2	1.2	40	7	US-10-299-054A-9730	Sequence 9730, A	C 374	19	1.2	25	8	US-10-098-2638-66408	Sequence 66408, A
C 302	19.2	1.2	40	7	US-10-299-054A-9730	Sequence 9730, A	C 375	19	1.2	25	8	US-10-098-2638-66408	Sequence 66408, A
C 303	19.2	1.2	40	8	US-10-083-246A-101	Sequence 101, Ap	C 376	19	1.2	25	8	US-10-355-577-626873	Sequence 626873, A
C 304	19.2	1.2	40	8	US-10-224-683-53	Sequence 53, Ap	C 377	19	1.2	25	9	US-60-417-190-30249	Sequence 30249, A
C 305	19.2	1.2	41	7	US-10-299-054A-9852	Sequence 9852, Ap	C 378	19	1.2	25	9	US-60-417-190-30249	Sequence 30249, A
C 306	19.2	1.2	41	8	US-10-287-787-6513	Sequence 6513, Ap	C 379	19	1.2	25	9	US-60-427-808-304565	Sequence 304565, A
C 307	19.2	1.2	41	8	US-10-277-216-405	Sequence 405, Ap	C 380	19	1.2	25	9	US-60-427-808-304565	Sequence 304565, A
C 308	19.2	1.2	42	8	US-10-008-890-32	Sequence 32, Ap	C 381	19	1.2	25	9	US-60-427-808-304565	Sequence 304565, A
C 309	19.2	1.2	42	7	US-10-367-892-6782	Sequence 6782, Ap	C 382	19	1.2	25	9	US-60-427-808-622289	Sequence 622289, A
C 310	19.2	1.2	43	7	US-10-299-054A-1757	Sequence 1757, Ap	C 383	19	1.2	25	9	US-60-427-808-622289	Sequence 622289, A
C 311	19.2	1.2	43	7	US-10-299-054A-3333	Sequence 3333, Ap	C 384	19	1.2	25	9	US-60-427-808-872100	Sequence 872100, A
C 312	19.2	1.2	44	7	US-10-367-892-11650	Sequence 11650, A	C 385	19	1.2	25	9	US-60-427-808-872100	Sequence 872100, A
C 313	19.2	1.2	44	7	US-10-287-787-6829	Sequence 6829, Ap	C 386	19	1.2	25	9	US-60-427-836-81274	Sequence 81274, A
C 314	19.2	1.2	45	7	US-10-367-892-8798	Sequence 8798, Ap	C 387	19	1.2	25	9	US-60-427-836-398939	Sequence 398939, A
C 315	19.2	1.2	45	7	US-10-299-054A-329	Sequence 329, Ap	C 388	19	1.2	26	8	US-60-427-836-398939	Sequence 398939, A
C 316	19.2	1.2	45	7	US-10-299-054A-4381	Sequence 4381, Ap	C 389	19	1.2	28	6	US-10-310-188-2894	Sequence 2894, Ap

390	18.6	1.2	34	1	PCT-US02-40561-7	Sequence 7, Appl1	463	18.4	1.2	40	7	US-10-287-787-13729	Sequence 13729, A
391	18.6	1.2	34	7	US-10-367-892-12768	Sequence 12768, A	464	18.4	1.2	41	7	US-10-299-054A-2527	Sequence 2527, Ap
392	18.6	1.2	34	7	US-10-299-054A-9417	Sequence 9417, Ap	465	18.4	1.2	43	7	US-10-299-054A-10683	Sequence 10683, A
393	18.6	1.2	34	7	US-10-299-054A-10505	Sequence 10505, A	466	18.4	1.2	44	7	US-10-299-054A-9578	Sequence 9578, Ap
394	18.6	1.2	34	7	US-10-299-054A-10532	Sequence 10532, A	467	18.4	1.2	44	7	US-10-299-054A-9679	Sequence 9679, Ap
395	18.6	1.2	36	7	US-10-299-054A-5419	Sequence 5419, Ap	468	18.4	1.2	44	7	US-10-299-054A-9680	Sequence 9680, Ap
396	18.6	1.2	37	7	US-10-299-054A-5418	Sequence 5418, Ap	469	18.4	1.2	45	1	US-10-299-054A-9680	Sequence 10684, A
397	18.6	1.2	38	7	US-10-299-054A-2223	Sequence 2223, Ap	470	18.4	1.2	45	7	US-10-299-054A-10684	Sequence 34, Appl1
398	18.6	1.2	39	7	US-10-299-054A-5416	Sequence 5416, Ap	471	18.4	1.2	45	7	PCT-US03-01698-14	Sequence 6232, Ap
399	18.6	1.2	39	7	US-10-299-054A-5417	Sequence 5417, Ap	472	18.4	1.2	46	7	US-10-299-054A-6232	Sequence 76, Appl1
400	18.6	1.2	40	7	US-10-299-054A-10504	Sequence 10504, A	473	18.4	1.2	46	6	US-09-770-169A-76	Sequence 8046, Ap
401	18.6	1.2	40	7	US-10-299-054A-10531	Sequence 10531, A	474	18.4	1.2	47	7	US-10-299-054A-8046	Sequence 11262, Ap
402	18.6	1.2	40	8	PCT-US02-35375-33	Sequence 33, Appl1	475	18.4	1.2	47	7	US-10-299-054A-11262	Sequence 4327, A
403	18.6	1.2	41	1	PCT-US02-40024-2	Sequence 2, Appl1	476	18.4	1.2	48	7	US-10-287-787-4527	Sequence 6684, Ap
404	18.6	1.2	41	1	US-10-299-054A-2224	Sequence 2, Appl1	477	18.4	1.2	48	7	US-10-367-892-6584	Sequence 17619, A
405	18.6	1.2	41	8	US-10-319-369-2	Sequence 2, Appl1	478	18.4	1.2	49	6	US-09-785-632B-8	Sequence 8, Appl1
406	18.6	1.2	41	8	US-10-299-054A-2494	Sequence 2494, Ap	479	18.4	1.2	49	7	US-10-299-054A-6930	Sequence 6930, Ap
407	18.6	1.2	42	7	US-10-299-054A-9747	Sequence 9747, Ap	480	18.4	1.2	50	6	US-09-912-293-120093	Sequence 120093, A
408	18.6	1.2	42	7	US-10-299-054A-10586	Sequence 10586, A	481	18.4	1.2	50	6	US-10-287-787-11402	Sequence 11402, A
409	18.6	1.2	42	7	US-10-299-054A-10586	Sequence 24733, A	482	18.4	1.2	50	7	US-10-325-899-451	Sequence 451, Ap
410	18.6	1.2	42	7	US-10-287-787-24733	Sequence 24733, A	483	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
411	18.6	1.2	43	7	US-10-367-892-17749	Sequence 17749, A	484	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
412	18.6	1.2	43	7	US-10-367-892-25041	Sequence 25041, A	485	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
413	18.6	1.2	43	7	US-10-287-787-21378	Sequence 21378, A	486	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
414	18.6	1.2	44	7	US-10-299-054A-6131	Sequence 6131, Ap	487	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
415	18.6	1.2	44	7	US-10-299-054A-11059	Sequence 11059, A	488	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
416	18.6	1.2	44	7	US-10-316-956-256	Sequence 256, Ap	489	18.2	1.2	23	8	US-10-310-188-35370	Sequence 35370, A
417	18.6	1.2	44	8	US-09-906-777B-313	Sequence 313, Ap	490	18.2	1.2	24	8	US-10-310-188-67051	Sequence 67051, A
418	18.6	1.2	45	6	US-09-989-733-122	Sequence 122, Ap	491	18.2	1.2	24	8	US-10-310-188-74369	Sequence 74369, A
419	18.6	1.2	45	6	US-09-992-643-122	Sequence 313, Ap	492	18.2	1.2	25	7	US-10-299-054A-7009	Sequence 7009, Ap
420	18.6	1.2	45	6	US-09-904-011C-313	Sequence 313, Ap	493	18.2	1.2	25	7	US-10-299-054A-7010	Sequence 7010, Ap
421	18.6	1.2	45	6	US-09-665-350B-313	Sequence 313, Ap	494	18.2	1.2	25	7	US-10-355-577-347029	Sequence 347029, A
422	18.6	1.2	45	6	US-10-287-787-1205	Sequence 1205, Ap	495	18.2	1.2	25	7	US-10-355-577-347021	Sequence 347021, A
423	18.6	1.2	45	8	US-10-299-937-313	Sequence 313, Ap	496	18.2	1.2	25	8	US-10-355-577-479181	Sequence 479181, A
424	18.6	1.2	45	8	US-10-299-937-313	Sequence 313, Ap	497	18.2	1.2	25	8	US-10-355-577-594243	Sequence 594243, A
425	18.6	1.2	45	8	US-10-299-937-313	Sequence 313, Ap	498	18.2	1.2	25	8	US-10-355-577-594244	Sequence 594244, A
426	18.6	1.2	45	8	US-10-299-937-313	Sequence 313, Ap	499	18.2	1.2	25	9	US-60-427-808-191387	Sequence 191387, A
427	18.6	1.2	46	7	US-10-299-054A-6233	Sequence 6233, Ap	500	18.2	1.2	25	9	US-60-427-808-248076	Sequence 248076, A
428	18.6	1.2	46	7	US-10-287-787-10902	Sequence 10902, A	501	18.2	1.2	25	9	US-60-427-808-248076	Sequence 248076, A
429	18.6	1.2	47	7	US-10-367-892-12765	Sequence 12765, A	502	18.2	1.2	25	9	US-60-427-808-248076	Sequence 248076, A
430	18.6	1.2	47	7	US-10-367-892-12765	Sequence 12765, A	503	18.2	1.2	31	6	US-09-911-935C-10	Sequence 935C, Ap
431	18.6	1.2	47	7	US-10-287-787-21379	Sequence 21379, A	504	18.2	1.2	31	7	US-10-287-787-16471	Sequence 16471, A
432	18.6	1.2	47	7	US-10-299-054A-4441	Sequence 4441, Ap	505	18.2	1.2	31	7	US-10-287-787-25466	Sequence 25466, A
433	18.6	1.2	49	7	US-10-299-054A-4441	Sequence 11058, A	506	18.2	1.2	32	7	US-10-367-892-24507	Sequence 24507, A
434	18.6	1.2	49	7	US-10-083-246A-56	Sequence 56, Appl1	507	18.2	1.2	32	7	US-10-299-054A-9502	Sequence 9502, Ap
435	18.6	1.2	50	6	US-09-912-293-62813	Sequence 62813, A	508	18.2	1.2	33	7	US-10-367-892-14920	Sequence 14920, A
436	18.6	1.2	50	7	US-10-299-054A-2880	Sequence 2880, Ap	509	18.2	1.2	33	7	US-10-299-054A-748	Sequence 748, Ap
437	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	510	18.2	1.2	33	7	US-10-299-054A-9445	Sequence 9445, Ap
438	18.6	1.2	50	8	US-10-322-360-984	Sequence 984, Ap	511	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
439	18.6	1.2	50	8	US-10-322-360-984	Sequence 984, Ap	512	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
440	18.6	1.2	28	6	US-09-888-326A-171	Sequence 171, Ap	513	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
441	18.4	1.2	29	1	US-10-314-578-770	Sequence 770, Ap	514	18.2	1.2	34	7	US-10-287-787-16344	Sequence 16344, A
442	18.4	1.2	29	1	PCT-US02-27188A-16	Sequence 16, Appl1	515	18.2	1.2	35	7	US-10-367-892-11966	Sequence 11966, A
443	18.4	1.2	29	1	PCT-US02-27188A-17	Sequence 17, Appl1	516	18.2	1.2	37	7	US-10-299-054A-6130	Sequence 6130, Ap
444	18.4	1.2	29	1	PCT-US02-27188A-18	Sequence 18, Appl1	517	18.2	1.2	37	7	US-10-299-054A-6130	Sequence 6130, Ap
445	18.4	1.2	29	1	PCT-US02-27188A-19	Sequence 19, Appl1	518	18.2	1.2	37	7	US-10-299-054A-6130	Sequence 6130, Ap
446	18.4	1.2	29	8	US-10-228-264-16	Sequence 16, Appl1	519	18.2	1.2	39	8	US-10-305-275-1473	Sequence 1473, Ap
447	18.4	1.2	29	8	US-10-228-264-17	Sequence 17, Appl1	520	18.2	1.2	39	8	US-10-305-275-1473	Sequence 1473, Ap
448	18.4	1.2	29	8	US-10-228-264-18	Sequence 18, Appl1	521	18.2	1.2	40	7	US-10-299-054A-2495	Sequence 2495, Ap
449	18.4	1.2	29	8	US-10-228-264-19	Sequence 19, Appl1	522	18.2	1.2	40	7	US-10-299-054A-2495	Sequence 2495, Ap
450	18.4	1.2	30	7	US-10-287-787-549	Sequence 549, Ap	523	18.2	1.2	40	7	US-10-287-787-12650	Sequence 12650, A
451	18.4	1.2	30	7	US-10-287-787-17084	Sequence 17084, A	524	18.2	1.2	41	8	US-10-277-216-418	Sequence 216, Ap
452	18.4	1.2	31	7	US-10-287-787-17434	Sequence 17434, A	525	18.2	1.2	41	9	US-60-449-155-647	Sequence 647, Ap
453	18.4	1.2	32	7	US-10-299-054A-601	Sequence 601, Ap	526	18.2	1.2	41	9	US-60-449-155-647	Sequence 647, Ap
454	18.4	1.2	33	8	US-10-287-941-20	Sequence 20, Appl1	527	18.2	1.2	42	7	US-10-287-787-13408	Sequence 13408, A
455	18.4	1.2	33	8	US-10-163-084-12	Sequence 12, Appl1	528	18.2	1.2	42	7	US-10-287-787-24081	Sequence 24081, A
456	18.4	1.2	33	8	US-10-299-054A-10364	Sequence 10364, A	529	18.2	1.2	42	7	US-10-034-692B-8	Sequence 20803, A
457	18.4	1.2	36	8	US-10-332-542-7	Sequence 7, Appl1	530	18.2	1.2	44	7	US-10-287-787-20803	Sequence 20803, A
458	18.4	1.2	37	7	US-10-299-054A-8130	Sequence 8130, Ap	531	18.2	1.2	44	7	US-10-299-054A-4173	Sequence 4173, Ap
459	18.4	1.2	37	7	US-10-299-054A-11191	Sequence 11191, A	532	18.2	1.2	45	7	US-10-299-054A-9674	Sequence 9674, Ap
460	18.4	1.2	37	7	US-10-287-787-27647	Sequence 27647, A	533	18.2	1.2	46	7	US-10-299-054A-10448	Sequence 10448, A
461	18.4	1.2	39	8	US-10-287-941-15	Sequence 15, Appl1	534	18.2	1.2	48	7	US-10-367-892-19048	Sequence 19048, A
462	18.4	1.2	40	7	US-10-299-054A-2240	Sequence 2240, Ap	535	18.2	1.2	48	7	US-10-299-054A-6995	Sequence 6995, Ap

C 536	18.2	1.2	49	7	US-10-367-892-16985	Sequence 16985, A	C 609	18	1.1	50	6	US-09-912-293-206403	Sequence 206403, A
C 537	18.2	1.2	49	7	US-10-367-892-20906	Sequence 20906, A	C 610	18	1.1	50	7	US-10-367-892-15511	Sequence 15511, A
C 538	18.2	1.2	49	7	US-10-299-054A-10438	Sequence 10438, A	C 611	18	1.1	50	7	US-10-299-054A-3253	Sequence 3253, A
C 539	18.2	1.2	49	7	US-10-299-054A-10458	Sequence 10458, A	C 612	18	1.1	50	7	US-10-299-054A-4175	Sequence 4175, A
C 540	18.2	1.2	49	7	US-60-288-292-41502	Sequence 41502, A	C 613	18	1.1	50	7	US-10-299-054A-10525	Sequence 10525, A
C 541	18.2	1.2	50	6	US-09-912-293-43353	Sequence 43353, A	C 614	18	1.1	50	7	US-10-299-054A-10526	Sequence 10526, A
C 542	18.2	1.2	50	6	US-09-912-293-210464	Sequence 210464, A	C 615	18	1.1	50	7	US-10-287-787-7195	Sequence 7195, A
C 543	18.2	1.2	50	6	US-10-322-360-75	Sequence 75, Appl	C 616	18	1.1	50	8	US-10-325-899-1877	Sequence 1877, A
C 544	18.2	1.2	50	8	US-10-325-899-3908	Sequence 3908, A	C 617	18	1.1	50	8	US-10-325-899-613	Sequence 613, A
C 545	18.2	1.2	50	8	US-10-325-899-6766	Sequence 6766, A	C 618	18	1.1	50	8	US-10-325-899-191	Sequence 191, A
C 546	18.2	1.2	50	8	US-10-325-899-7156	Sequence 7156, A	C 619	18	1.1	50	8	US-10-325-899-613	Sequence 613, A
C 547	18.2	1.2	50	8	US-10-325-899-7341	Sequence 7341, A	C 620	18	1.1	50	8	US-10-325-899-7338	Sequence 7338, A
C 548	18.2	1.2	50	8	US-10-325-899-7450	Sequence 7450, A	C 621	18	1.1	50	8	US-10-325-899-7579	Sequence 7579, A
C 549	18.2	1.2	50	8	US-10-325-899-7529	Sequence 7529, A	C 622	18	1.1	50	8	US-10-325-899-7579	Sequence 7579, A
C 550	18.2	1.2	18	6	US-09-825-155A-6	Sequence 6, Appl	C 623	18	1.1	50	8	US-10-325-899-7579	Sequence 7579, A
C 551	18	1.1	18	6	US-10-310-188-39805	Sequence 39805, A	C 624	18	1.1	50	8	US-10-325-899-7579	Sequence 7579, A
C 552	18	1.1	26	8	US-10-310-188-42147	Sequence 42147, A	C 625	18	1.1	50	8	US-10-325-899-7579	Sequence 7579, A
C 553	18	1.1	29	1	PCT-US02-27188A-21	Sequence 20, Appl	C 626	17.8	1.1	21	8	US-10-303-778-9815	Sequence 9815, A
C 554	18	1.1	29	8	US-10-228-264-20	Sequence 21, Appl	C 627	17.8	1.1	21	8	US-10-310-188-48653	Sequence 48653, A
C 555	18	1.1	29	8	US-10-228-264-21	Sequence 21, Appl	C 628	17.8	1.1	21	8	US-10-310-188-48653	Sequence 48653, A
C 556	18	1.1	29	8	US-10-228-264-21	Sequence 21, Appl	C 629	17.8	1.1	21	8	US-10-310-188-48653	Sequence 48653, A
C 557	18	1.1	34	7	US-10-299-054A-9430	Sequence 9430, A	C 630	17.8	1.1	23	8	US-10-310-188-48653	Sequence 48653, A
C 558	18	1.1	34	7	US-10-299-054A-10312	Sequence 10312, A	C 631	17.8	1.1	23	8	US-10-310-188-48653	Sequence 48653, A
C 559	18	1.1	34	8	US-10-175-689-18	Sequence 18, Appl	C 632	17.8	1.1	25	9	US-60-427-808-455171	Sequence 455171, A
C 560	18	1.1	34	8	US-10-175-689-32	Sequence 22, Appl	C 633	17.8	1.1	25	9	US-60-427-808-455171	Sequence 455171, A
C 561	18	1.1	34	8	US-10-175-689-32	Sequence 22, Appl	C 634	17.8	1.1	25	9	US-60-427-808-455171	Sequence 455171, A
C 562	18	1.1	35	7	US-10-367-892-24522	Sequence 24522, A	C 635	17.8	1.1	25	9	US-60-427-808-455171	Sequence 455171, A
C 563	18	1.1	35	7	US-10-299-054A-10365	Sequence 10365, A	C 636	17.8	1.1	26	8	US-10-293-338-2510	Sequence 2510, A
C 564	18	1.1	35	7	US-10-299-054A-10366	Sequence 10366, A	C 637	17.8	1.1	30	7	US-10-299-054A-3343	Sequence 3343, A
C 565	18	1.1	35	7	US-10-299-054A-10744	Sequence 10744, A	C 638	17.8	1.1	30	7	US-10-299-054A-3344	Sequence 3344, A
C 566	18	1.1	35	7	US-10-299-054A-10744	Sequence 10744, A	C 639	17.8	1.1	30	7	US-10-299-054A-3344	Sequence 3344, A
C 567	18	1.1	36	7	US-10-299-054A-3680	Sequence 3680, A	C 640	17.8	1.1	30	8	US-10-310-188-51809	Sequence 51809, A
C 568	18	1.1	36	7	US-10-287-787-9207	Sequence 9207, A	C 641	17.8	1.1	30	8	US-10-270-524-19	Sequence 19, Appl
C 569	18	1.1	36	8	US-10-008-960-28	Sequence 28, Appl	C 642	17.8	1.1	31	7	US-10-367-892-22622	Sequence 22622, A
C 570	18	1.1	36	8	US-10-169-351-101	Sequence 101, Appl	C 643	17.8	1.1	31	7	US-10-299-054A-2237	Sequence 2237, A
C 571	18	1.1	37	7	US-10-367-892-1336	Sequence 1336, A	C 644	17.8	1.1	31	7	US-10-299-054A-2498	Sequence 2498, A
C 572	18	1.1	38	8	US-10-305-275-1117	Sequence 1117, A	C 645	17.8	1.1	31	7	US-10-299-054A-2498	Sequence 2498, A
C 573	18	1.1	38	8	US-10-305-275-1117	Sequence 1117, A	C 646	17.8	1.1	31	7	US-10-299-054A-2498	Sequence 2498, A
C 574	18	1.1	38	8	US-10-305-275A-1117	Sequence 1117, A	C 647	17.8	1.1	32	7	US-10-299-054A-2498	Sequence 2498, A
C 575	18	1.1	40	7	US-10-367-892-5928	Sequence 5928, A	C 648	17.8	1.1	32	7	US-10-299-054A-2498	Sequence 2498, A
C 576	18	1.1	40	7	US-10-299-054A-2531	Sequence 2531, A	C 649	17.8	1.1	32	7	US-10-299-054A-2498	Sequence 2498, A
C 577	18	1.1	40	8	US-10-083-246A-17	Sequence 17, Appl	C 650	17.8	1.1	33	7	US-10-299-054A-2498	Sequence 2498, A
C 578	18	1.1	42	7	US-10-367-892-540	Sequence 540, Appl	C 651	17.8	1.1	34	8	US-10-287-787-24709	Sequence 24709, A
C 579	18	1.1	42	7	US-10-367-892-7066	Sequence 7066, A	C 652	17.8	1.1	35	7	US-10-287-787-24709	Sequence 24709, A
C 580	18	1.1	42	7	US-10-367-892-7067	Sequence 7067, A	C 653	17.8	1.1	35	7	US-10-287-787-24709	Sequence 24709, A
C 581	18	1.1	42	7	US-10-299-054A-320	Sequence 320, Appl	C 654	17.8	1.1	36	7	US-10-299-054A-191	Sequence 191, A
C 582	18	1.1	42	7	US-10-211-088-100	Sequence 100, Appl	C 655	17.8	1.1	36	8	US-10-270-555-12	Sequence 12, Appl
C 583	18	1.1	43	8	US-10-299-054A-9575	Sequence 9575, A	C 656	17.8	1.1	37	7	US-10-299-054A-3736	Sequence 3736, A
C 584	18	1.1	43	8	US-10-287-787-25747	Sequence 25747, A	C 657	17.8	1.1	37	7	US-10-287-787-1703	Sequence 1703, A
C 585	18	1.1	43	8	US-10-202-896-20	Sequence 20, Appl	C 658	17.8	1.1	38	1	PCT-US02-22868-30	Sequence 30, Appl
C 586	18	1.1	43	9	US-60-288-232-26840	Sequence 26840, A	C 659	17.8	1.1	39	6	US-08-667-237B-12	Sequence 12, Appl
C 587	18	1.1	44	7	US-10-367-892-441	Sequence 441, A	C 660	17.8	1.1	39	7	US-10-367-892-2944	Sequence 2944, A
C 588	18	1.1	44	7	US-10-299-054A-10379	Sequence 10379, A	C 661	17.8	1.1	39	7	US-10-299-054A-3972	Sequence 3972, A
C 589	18	1.1	44	7	US-10-299-054A-10755	Sequence 10755, A	C 662	17.8	1.1	39	7	US-10-287-787-10508	Sequence 10508, A
C 590	18	1.1	45	1	PCT-US02-34588A-8	Sequence 8, Appl	C 663	17.8	1.1	39	8	US-10-287-787-16040	Sequence 16040, A
C 591	18	1.1	45	7	US-10-367-892-6031	Sequence 6031, A	C 664	17.8	1.1	39	8	PCT-US02-26708-37	Sequence 37, Appl
C 592	18	1.1	45	7	US-10-299-054A-10308	Sequence 10308, A	C 665	17.8	1.1	40	6	US-09-770-169A-47	Sequence 47, Appl
C 593	18	1.1	45	7	US-10-287-787-17473	Sequence 17473, A	C 666	17.8	1.1	40	6	US-10-367-892-16002	Sequence 16002, A
C 594	18	1.1	45	7	US-10-287-787-17473	Sequence 17473, A	C 667	17.8	1.1	40	7	US-10-367-892-1287	Sequence 1287, A
C 595	18	1.1	45	8	US-10-282-960-8	Sequence 2081, A	C 668	17.8	1.1	40	7	US-10-367-892-1287	Sequence 1287, A
C 596	18	1.1	47	7	US-10-349-193-2081	Sequence 22, Appl	C 669	17.8	1.1	41	7	US-10-299-054A-2200	Sequence 2200, A
C 597	18	1.1	47	8	PCT-US02-26708-22	Sequence 29, Appl	C 670	17.8	1.1	41	7	US-10-299-054A-2235	Sequence 2235, A
C 598	18	1.1	48	1	PCT-US02-13610-29	Sequence 15934, A	C 671	17.8	1.1	41	7	US-10-299-054A-2235	Sequence 2235, A
C 599	18	1.1	48	7	US-10-367-892-15934	Sequence 14644, A	C 672	17.8	1.1	42	7	US-10-299-054A-2235	Sequence 2235, A
C 600	18	1.1	48	7	US-10-287-787-14644	Sequence 14644, A	C 673	17.8	1.1	42	7	US-10-299-054A-2235	Sequence 2235, A
C 601	18	1.1	48	7	US-10-287-787-16488	Sequence 16488, A	C 674	17.8	1.1	42	7	US-10-299-054A-2235	Sequence 2235, A
C 602	18	1.1	48	7	US-10-224-683-22	Sequence 22, Appl	C 675	17.8	1.1	42	7	US-10-299-054A-2235	Sequence 2235, A
C 603	18	1.1	49	8	PCT-US02-30458-53	Sequence 53, Appl	C 676	17.8	1.1	43	7	US-10-287-787-24733	Sequence 24733, A
C 604	18	1.1	49	8	US-10-367-892-7604	Sequence 7604, A	C 677	17.8	1.1	43	7	US-10-299-054A-10430	Sequence 10430, A
C 605	18	1.1	49	7	US-10-287-787-5445	Sequence 5445, A	C 678	17.8	1.1	43	7	US-10-299-054A-10430	Sequence 10430, A
C 606	18	1.1	49	7	US-10-287-787-9291	Sequence 9291, A	C 679	17.8	1.1	43	7	US-10-299-054A-10450	Sequence 10450, A
C 607	18	1.1	50	6	US-09-912-293-174987	Sequence 174987, A	C 680	17.8	1.1	43	7	US-10-299-054A-10450	Sequence 10450, A
C 608	18	1.1	50	6	US-09-912-293-174987	Sequence 174987, A	C 681	17.8	1.1	44	7	US-10-367-892-22145	Sequence 22145, A

682	17.8	1.1	44	7	US-10-287-787-5919	Sequence 5919, Ap	C 755	17.6	1.1	25	9	US-60-427-836-465969	Sequence 465969,
683	17.8	1.1	45	7	US-10-287-787-5919	Sequence 31, Appl	C 756	17.6	1.1	25	9	US-60-427-836-465969	Sequence 494635,
684	17.8	1.1	45	8	US-10-321-855-464	Sequence 464, Appl	C 757	17.6	1.1	25	9	US-60-427-836-518223	Sequence 518223,
685	17.8	1.1	46	7	US-10-367-892-12345	Sequence 12345, A	C 758	17.6	1.1	25	9	US-60-427-836-582449	Sequence 582449,
686	17.8	1.1	46	7	US-10-287-787-20103	Sequence 20103, A	C 759	17.6	1.1	25	9	US-60-427-836-605511	Sequence 605511,
687	17.8	1.1	47	7	US-10-287-787-7456	Sequence 7456, Ap	C 760	17.6	1.1	25	9	US-60-427-836-605512	Sequence 605512,
688	17.8	1.1	47	8	US-10-349-143-1961	Sequence 1961, Ap	C 761	17.6	1.1	25	9	US-60-427-836-630631	Sequence 630631,
689	17.8	1.1	47	8	US-10-349-143-2510	Sequence 2510, Ap	C 762	17.6	1.1	25	9	US-60-427-836-634291	Sequence 634291,
690	17.8	1.1	47	8	US-10-349-143-3494	Sequence 3494, Ap	C 763	17.6	1.1	25	9	US-60-427-836-647257	Sequence 647257,
691	17.8	1.1	47	8	US-10-299-054A-8350	Sequence 8350, Ap	C 764	17.6	1.1	25	9	US-60-427-836-647757	Sequence 647757,
692	17.8	1.1	48	7	US-10-299-054A-10488	Sequence 10488, A	C 765	17.6	1.1	25	9	US-60-427-836-689486	Sequence 689486,
693	17.8	1.1	48	7	US-10-299-054A-10489	Sequence 10489, A	C 766	17.6	1.1	26	8	US-10-310-188-48755	Sequence 48755, A
694	17.8	1.1	48	7	US-10-299-054A-10490	Sequence 10490, A	C 767	17.6	1.1	27	1	PCT-US03-03307-18	Sequence 15847, A
695	17.8	1.1	48	7	US-10-299-054A-10512	Sequence 10512, A	C 768	17.6	1.1	27	8	US-10-367-892-15847	Sequence 17906, A
696	17.8	1.1	48	7	US-10-299-054A-10513	Sequence 10513, A	C 769	17.6	1.1	27	8	US-10-367-892-15847	Sequence 17906, A
697	17.8	1.1	48	7	US-10-299-054A-10514	Sequence 10514, A	C 770	17.6	1.1	28	6	US-10-367-892-15847	Sequence 17906, A
698	17.8	1.1	48	7	US-10-299-054A-10542	Sequence 10542, A	C 771	17.6	1.1	32	7	US-10-367-892-15847	Sequence 17906, A
699	17.8	1.1	48	7	US-10-299-054A-10543	Sequence 10543, A	C 772	17.6	1.1	32	7	US-10-287-787-15880	Sequence 20096, A
700	17.8	1.1	48	7	US-10-299-054A-10544	Sequence 10544, A	C 773	17.6	1.1	32	7	US-10-287-787-15880	Sequence 20096, A
701	17.8	1.1	48	7	US-10-287-787-7517	Sequence 7517, Ap	C 774	17.6	1.1	33	1	PCT-US02-24274-11	Sequence 10686, A
702	17.8	1.1	48	7	US-10-287-787-19568	Sequence 19568, A	C 775	17.6	1.1	33	1	US-10-299-054A-10686	Sequence 10686, A
703	17.8	1.1	49	7	US-10-287-787-19567	Sequence 19567, A	C 776	17.6	1.1	33	8	US-10-305-275A-7	Sequence 7, Appl
704	17.8	1.1	49	7	US-10-287-787-21341	Sequence 21341, A	C 777	17.6	1.1	33	8	US-10-305-275A-7	Sequence 10318, A
705	17.8	1.1	49	7	US-10-287-787-21341	Sequence 50, Appl	C 778	17.6	1.1	33	8	US-10-305-275A-7	Sequence 7, Appl
706	17.8	1.1	50	1	PCT-US03-02612-50	Sequence 65474, A	C 779	17.6	1.1	34	8	US-10-299-054A-10318	Sequence 6, Appl
707	17.8	1.1	50	6	US-09-912-293-65474	Sequence 74710, A	C 780	17.6	1.1	34	8	US-10-305-275A-7	Sequence 7, Appl
708	17.8	1.1	50	6	US-09-912-293-74710	Sequence 122784, A	C 781	17.6	1.1	34	8	US-10-321-854-774	Sequence 7, Appl
709	17.8	1.1	50	6	US-09-912-293-122784	Sequence 122784, A	C 782	17.6	1.1	34	8	US-10-305-275A-7	Sequence 7, Appl
710	17.8	1.1	50	6	US-09-912-293-163116	Sequence 163116, A	C 783	17.6	1.1	34	8	US-10-305-275A-7	Sequence 7, Appl
711	17.8	1.1	50	7	US-10-299-054A-2914	Sequence 2914, Ap	C 784	17.6	1.1	35	7	US-10-299-054A-6967	Sequence 6967, Ap
712	17.8	1.1	50	7	US-10-287-787-5918	Sequence 5918, Ap	C 785	17.6	1.1	35	7	US-10-299-054A-5128	Sequence 5128, Ap
713	17.8	1.1	50	7	US-10-287-787-9943	Sequence 9943, Ap	C 786	17.6	1.1	36	7	US-10-299-054A-5128	Sequence 28, Appl
714	17.8	1.1	50	8	US-10-321-855-497	Sequence 497, Ap	C 787	17.6	1.1	36	8	US-10-008-960-6204	Sequence 6204, Ap
715	17.8	1.1	50	8	US-10-325-899-854	Sequence 854, Ap	C 788	17.6	1.1	37	7	US-10-367-892-6204	Sequence 9733, Ap
716	17.8	1.1	50	8	US-10-325-899-854	Sequence 4115, Ap	C 789	17.6	1.1	37	7	US-10-299-054A-9733	Sequence 1278
717	17.8	1.1	50	8	US-10-325-899-7804	Sequence 7804, Ap	C 790	17.6	1.1	38	7	US-10-367-892-14280	Sequence 14280, A
718	17.8	1.1	50	8	US-10-310-188-41718	Sequence 41718, A	C 791	17.6	1.1	38	7	US-10-367-892-14280	Sequence 9500, Ap
719	17.8	1.1	50	8	US-10-310-188-45037	Sequence 45037, A	C 792	17.6	1.1	38	7	US-10-299-054A-9500	Sequence 22293, A
720	17.8	1.1	50	8	US-10-310-188-48663	Sequence 48663, A	C 793	17.6	1.1	39	7	US-10-287-787-22293	Sequence 14752, A
721	17.8	1.1	50	8	US-10-310-188-48664	Sequence 48664, A	C 794	17.6	1.1	40	7	US-10-367-892-14752	Sequence 4159, Ap
722	17.8	1.1	50	8	US-10-310-188-48664	Sequence 48664, A	C 795	17.6	1.1	40	7	US-10-299-054A-4159	Sequence 8415, Ap
723	17.8	1.1	50	8	US-10-299-054A-6037	Sequence 6037, Ap	C 796	17.6	1.1	40	7	US-10-299-054A-4159	Sequence 1519, Ap
724	17.8	1.1	50	8	US-10-303-778-2112	Sequence 2112, Ap	C 797	17.6	1.1	41	7	US-10-287-787-8415	Sequence 10494, A
725	17.8	1.1	50	8	US-10-310-188-3077	Sequence 3077, Ap	C 798	17.6	1.1	41	7	US-10-367-892-1519	Sequence 10495, A
726	17.8	1.1	50	8	US-10-310-188-48731	Sequence 48731, A	C 799	17.6	1.1	41	7	US-10-299-054A-10495	Sequence 10519, A
727	17.8	1.1	50	8	US-10-310-188-48781	Sequence 48781, A	C 800	17.6	1.1	41	7	US-10-299-054A-10518	Sequence 10519, A
728	17.8	1.1	50	8	US-10-098-263B-48877	Sequence 48877, A	C 801	17.6	1.1	41	7	US-10-287-787-23892	Sequence 23892, A
729	17.8	1.1	50	8	US-10-355-577-63774	Sequence 63774, A	C 802	17.6	1.1	41	7	US-10-287-787-23892	Sequence 23892, A
730	17.8	1.1	50	8	US-10-355-577-11243	Sequence 11243, A	C 803	17.6	1.1	41	7	US-10-287-787-23892	Sequence 23892, A
731	17.8	1.1	50	8	US-10-355-577-571243	Sequence 571243, A	C 804	17.6	1.1	41	7	US-10-287-787-23892	Sequence 23892, A
732	17.8	1.1	50	8	US-10-355-577-571243	Sequence 571243, A	C 805	17.6	1.1	41	9	US-60-449-115-539	Sequence 539, Ap
733	17.8	1.1	50	8	US-10-355-577-850999	Sequence 850999, A	C 806	17.6	1.1	41	9	US-60-449-115-539	Sequence 680, Ap
734	17.8	1.1	50	8	US-10-355-577-850999	Sequence 850999, A	C 807	17.6	1.1	42	7	US-10-367-892-18396	Sequence 18396, A
735	17.8	1.1	50	8	US-60-427-808-83179	Sequence 83179, A	C 808	17.6	1.1	42	7	US-10-367-892-18396	Sequence 11206, A
736	17.8	1.1	50	8	US-60-427-808-106941	Sequence 106941, A	C 809	17.6	1.1	42	8	US-10-299-054A-11206	Sequence 11, Appl
737	17.8	1.1	50	8	US-60-427-808-157279	Sequence 157279, A	C 810	17.6	1.1	42	8	US-10-299-054A-11206	Sequence 11, Appl
738	17.8	1.1	50	8	US-60-427-808-157280	Sequence 157280, A	C 811	17.6	1.1	42	8	US-60-288-299-11489	Sequence 11351, A
739	17.8	1.1	50	8	US-60-427-808-359016	Sequence 359016, A	C 812	17.6	1.1	43	7	US-10-367-892-11489	Sequence 4099, Ap
740	17.8	1.1	50	8	US-60-427-808-464367	Sequence 464367, A	C 813	17.6	1.1	43	7	US-10-367-892-11489	Sequence 22145, A
741	17.8	1.1	50	8	US-60-427-808-493620	Sequence 493620, A	C 814	17.6	1.1	44	7	US-10-287-787-20624	Sequence 20624, A
742	17.8	1.1	50	8	US-60-427-808-505751	Sequence 505751, A	C 815	17.6	1.1	44	7	US-10-287-787-20624	Sequence 20624, A
743	17.8	1.1	50	8	US-60-427-808-505751	Sequence 505751, A	C 816	17.6	1.1	44	7	US-10-287-787-20624	Sequence 20624, A
744	17.8	1.1	50	8	US-60-427-808-703906	Sequence 703906, A	C 817	17.6	1.1	44	7	US-10-287-787-20624	Sequence 20624, A
745	17.8	1.1	50	8	US-60-427-836-127054	Sequence 127054, A	C 818	17.6	1.1	45	7	US-10-367-892-7563	Sequence 7563, Ap
746	17.8	1.1	50	8	US-60-427-836-131731	Sequence 131731, A	C 819	17.6	1.1	45	7	US-10-367-892-7563	Sequence 4347, Ap
747	17.8	1.1	50	8	US-60-427-836-144746	Sequence 144746, A	C 820	17.6	1.1	45	7	US-10-299-054A-9735	Sequence 9735, Ap
748	17.8	1.1	50	8	US-60-427-836-22535	Sequence 22535, A	C 821	17.6	1.1	46	7	US-10-367-892-690	Sequence 690, Ap
749	17.8	1.1	50	8	US-60-427-836-244067	Sequence 244067, A	C 822	17.6	1.1	46	7	US-10-287-787-25448	Sequence 25448, A
750	17.8	1.1	50	8	US-60-427-836-260862	Sequence 260862, A	C 823	17.6	1.1	47	8	US-10-287-787-16500	Sequence 16500, A
751	17.8	1.1	50	8	US-60-427-836-260862	Sequence 260862, A	C 824	17.6	1.1	47	8	US-10-305-275A-762	Sequence 762, Ap
752	17.8	1.1	50	8	US-60-427-836-322613	Sequence 322613, A	C 825	17.6	1.1	48	7	PCT-US02-13610-59	Sequence 59, Appl
753	17.8	1.1	50	8	US-60-427-836-385453	Sequence 385453, A	C 826	17.6	1.1	48	7	US-10-367-892-5826	Sequence 5826, Ap
754	17.8	1.1	50	8	US-60-427-836-405403	Sequence 405403, A	C 827	17.6	1.1	48	7	US-10-287-787-25426	Sequence 25426, A

828	17.6	1.1	48	8	US-10-079-709-14	Sequence 14, Appl	901	17.4	1.1	45	7	US-10-299-054A-10846	Sequence 10846, A
C 829	17.6	1.1	49	7	US-10-367-892-3822	Sequence 3822, Ap	902	17.4	1.1	45	7	US-10-299-054A-10848	Sequence 10848, A
C 830	17.6	1.1	49	7	US-10-287-787-439	Sequence 439, App	903	17.4	1.1	45	7	US-10-287-787-19197	Sequence 19197, A
831	17.6	1.1	49	8	US-10-316-954-2533	Sequence 2533, Ap	C 904	17.4	1.1	45	7	US-10-299-054A-3283	Sequence 3283, A
832	17.6	1.1	50	6	US-09-912-293-151340	Sequence 151340, A	C 905	17.4	1.1	46	7	US-10-299-054A-9593	Sequence 9593, Ap
833	17.6	1.1	50	6	US-09-912-293-151340	Sequence 151340, A	C 906	17.4	1.1	46	7	US-10-299-054A-9593	Sequence 9593, Ap
C 834	17.6	1.1	50	6	US-10-299-054A-10698	Sequence 10698, A	C 907	17.4	1.1	46	7	US-10-287-787-25024	Sequence 25024, A
C 835	17.4	1.1	19	8	US-10-310-188-64402	Sequence 64402, A	C 908	17.4	1.1	46	7	US-10-287-787-25024	Sequence 25024, A
C 836	17.4	1.1	19	8	US-10-310-188-64402	Sequence 64402, A	C 909	17.4	1.1	47	7	US-10-367-892-15747	Sequence 15747, A
837	17.4	1.1	22	8	US-10-293-338-72649	Sequence 72649, A	C 910	17.4	1.1	47	7	US-10-299-054A-2372	Sequence 2372, Ap
838	17.4	1.1	22	8	US-10-310-188-7246	Sequence 7246, Ap	C 911	17.4	1.1	47	7	US-10-299-054A-8046	Sequence 8046, Ap
839	17.4	1.1	25	8	US-10-355-577-254344	Sequence 254344, A	C 912	17.4	1.1	47	7	US-10-287-787-18181	Sequence 18181, A
840	17.4	1.1	25	8	US-10-278-060-1	Sequence 1, Appl	C 913	17.4	1.1	47	7	US-10-287-787-18181	Sequence 18181, A
841	17.4	1.1	26	8	US-10-299-054A-3145	Sequence 3145, Ap	C 914	17.4	1.1	47	7	US-10-287-787-18181	Sequence 18181, A
842	17.4	1.1	27	8	US-10-310-188-70548	Sequence 70548, A	C 915	17.4	1.1	47	7	US-10-287-787-18181	Sequence 18181, A
843	17.4	1.1	27	8	US-10-310-188-70548	Sequence 70548, A	C 916	17.4	1.1	47	7	US-10-287-787-18181	Sequence 18181, A
844	17.4	1.1	28	7	US-10-367-892-15477	Sequence 15477, A	C 917	17.4	1.1	48	6	US-09-708-143-3847	Sequence 3847, Ap
845	17.4	1.1	29	1	PCT-US02-38612-4	Sequence 4, Appl	C 918	17.4	1.1	48	6	US-09-708-143-3847	Sequence 3847, Ap
C 846	17.4	1.1	30	7	US-10-299-054A-10847	Sequence 10847, A	C 919	17.4	1.1	48	7	US-10-287-787-16488	Sequence 16488, A
C 847	17.4	1.1	30	7	US-10-287-787-7887	Sequence 7887, Ap	C 920	17.4	1.1	49	6	US-09-785-6328-8	Sequence 26799, A
C 848	17.4	1.1	30	7	US-10-287-787-19371	Sequence 19371, A	C 921	17.4	1.1	49	6	US-10-287-787-16488	Sequence 16488, A
C 849	17.4	1.1	30	8	US-10-281-513-229	Sequence 229, App	C 922	17.4	1.1	49	6	US-09-513-996C-19414	Sequence 19414, A
850	17.4	1.1	31	7	US-10-367-892-3820	Sequence 3820, Ap	C 923	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
851	17.4	1.1	31	7	US-10-299-054A-189	Sequence 189, App	C 924	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 852	17.4	1.1	32	7	US-10-367-892-1589	Sequence 1589, Ap	C 925	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 853	17.4	1.1	32	7	US-10-367-892-11833	Sequence 11833, A	C 926	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 854	17.4	1.1	33	7	US-10-367-892-11833	Sequence 11833, A	C 927	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 855	17.4	1.1	34	7	US-10-287-787-112520	Sequence 112520, A	C 928	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 856	17.4	1.1	35	7	US-10-367-892-11625	Sequence 11625, A	C 929	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 857	17.4	1.1	35	7	US-10-299-054A-2204	Sequence 2204, Ap	C 930	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 858	17.4	1.1	35	7	US-10-299-054A-11146	Sequence 11146, A	C 931	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 859	17.4	1.1	35	8	US-10-192-078-8	Sequence 8, Appl	C 932	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 860	17.4	1.1	36	7	US-10-299-054A-1750	Sequence 1750, Ap	C 933	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 861	17.4	1.1	36	7	US-10-185-815-67	Sequence 67, Appl	C 934	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 862	17.4	1.1	37	6	US-09-848-868-15	Sequence 15, Appl	C 935	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 863	17.4	1.1	37	6	US-10-299-054A-9484	Sequence 9484, Ap	C 936	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 864	17.4	1.1	37	7	US-10-287-787-9456	Sequence 9456, Ap	C 937	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 865	17.4	1.1	37	8	US-10-230-006-1573	Sequence 1573, Ap	C 938	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 866	17.4	1.1	37	8	US-10-287-787-10196	Sequence 10196, A	C 939	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 867	17.4	1.1	37	9	US-10-287-787-10196	Sequence 10196, A	C 940	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
868	17.4	1.1	38	7	US-10-287-787-11915	Sequence 11915, A	C 941	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
869	17.4	1.1	38	7	US-10-287-787-11915	Sequence 11915, A	C 942	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
870	17.4	1.1	38	7	US-10-287-787-11915	Sequence 11915, A	C 943	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
871	17.4	1.1	38	7	US-10-287-787-11915	Sequence 11915, A	C 944	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 872	17.4	1.1	39	7	US-10-367-892-765	Sequence 765, App	C 945	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 873	17.4	1.1	39	7	US-10-367-892-15381	Sequence 15381, A	C 946	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 874	17.4	1.1	39	7	US-10-367-892-15381	Sequence 15381, A	C 947	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 875	17.4	1.1	40	6	US-09-548-797B-169	Sequence 169, App	C 948	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 876	17.4	1.1	40	7	US-10-287-787-23519	Sequence 23519, A	C 949	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 877	17.4	1.1	41	1	US-10-287-787-19240	Sequence 19240, A	C 950	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 878	17.4	1.1	41	7	US-10-277-216-241	Sequence 216, App	C 951	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 879	17.4	1.1	41	8	US-10-277-216-241	Sequence 216, App	C 952	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 880	17.4	1.1	41	8	US-10-277-216-241	Sequence 216, App	C 953	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 881	17.4	1.1	41	8	US-10-277-216-241	Sequence 216, App	C 954	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 882	17.4	1.1	41	9	US-10-224-683-62	Sequence 62, Appl	C 955	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 883	17.4	1.1	42	1	US-10-367-892-7790	Sequence 7790, Ap	C 956	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 884	17.4	1.1	42	7	US-10-299-054A-9471	Sequence 9471, Ap	C 957	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 885	17.4	1.1	42	7	US-10-299-054A-10819	Sequence 10819, A	C 958	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 886	17.4	1.1	42	7	US-10-299-054A-10819	Sequence 10819, A	C 959	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 887	17.4	1.1	42	8	US-10-148-936-14	Sequence 14, Appl	C 960	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 888	17.4	1.1	42	8	US-10-293-983-22	Sequence 22, Appl	C 961	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 889	17.4	1.1	42	8	US-10-316-956-240	Sequence 240, App	C 962	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 890	17.4	1.1	43	7	US-10-299-054A-10829	Sequence 10829, A	C 963	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 891	17.4	1.1	43	7	US-10-299-054A-10829	Sequence 10829, A	C 964	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 892	17.4	1.1	43	7	US-10-287-787-6423	Sequence 6423, Ap	C 965	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 893	17.4	1.1	43	7	US-10-287-787-6423	Sequence 6423, Ap	C 966	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 894	17.4	1.1	43	7	US-10-287-787-6423	Sequence 6423, Ap	C 967	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 895	17.4	1.1	44	7	US-10-287-787-9234	Sequence 9234, Ap	C 968	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 896	17.4	1.1	45	7	US-10-299-054A-1392	Sequence 1392, Ap	C 969	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 897	17.4	1.1	45	7	US-10-299-054A-10820	Sequence 10820, A	C 970	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 898	17.4	1.1	45	7	US-10-299-054A-10821	Sequence 10821, A	C 971	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 899	17.4	1.1	45	7	US-10-299-054A-10834	Sequence 10834, A	C 972	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A
C 900	17.4	1.1	45	7	US-10-299-054A-10834	Sequence 10834, A	C 973	17.4	1.1	50	6	US-09-513-996C-19414	Sequence 19414, A

## ALIGNMENTS

Query Match	1.9%	Score 30	DB 8	Length 30
Best Local Similarity	100.0%	Pred. No.	1.4e+04	
Matches 30	Conservative 0	Mismatches 0	Indels 0	Caps 0

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QY      691 TATCCACGCGTCGGTGAAGCAGACACTC   720
        |||||||.....|||
Db       1 TATCCACTGCCTCGTGCAAGCAGAGAACTC   30

RESULT 2
US-10-287-787-7843
; Sequence 7843, Application US/10287787
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Callobacter crescentus complete genome
; FILE REFERENCE: Jim Zegeer Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/287,787
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 27958
; SOFTWARE: Proprietary
; SEQ ID NO 7843
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Query Match	1.7%	Score 26.4	DB 7	Length 44
Best Local Similarity	75.0%	Pred. No. 5.9e+04		
Matches 33	Conservative 0	Mismatches 11	Indels 0	Gaps 0

**QY**      1351 CACCGGGGCGGGAGCCGCGGGGGCGGCGGCAGAGTACC 1394  
          | | | | | | | | | | | | | | | | | |  
**Ddb**      1 CTGCGCGCGCGGACTCTGGCGGGCGGCGGCCACTTCGACC 44

```

RESULT 3
US-10-299-054A-10448/c
Sequence 10448, Application US/10299054A
GENERAL INFORMATION:
APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
TITLE OF INVENTION: Mycobacterium tuberculosis complete genome.
FILE REFERENCE: Jim Zeeger law Offices - 703-684-8333
CURRENT APPLICATION NUMBER: US/10/299,054A
CURRENT FILING DATE: 2003-03-03
NUMBER OF SEQ ID NOS: 11910
SOFTWARE: Proprietary
SEQ ID NO 10448
LENGTH: 46
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis complete genome.
FEATURE:
LOCATION: (3933994)..(3934039)
OTHER INFORMATION: Chromosome = 1 Strand = negative
US-10-299-054A-10448
Connecticut

```

Query Match	1.6%	Score 26:	DB 7:	Length 46:
Similarity	75.2%	Pred. No.	7B+04:	
Best Local		Matches	32:	Mismatches
Conservative	0:	Indels	0:	Gaps

**Dy**    1337 GACCGCGGCGGGAGCAGCGCGCGGGGAGCCCGGGGGCGGC 1378  
         | | | | | | | | | | | | | | | | | |  
**Db**    45 GGCGCGCGCGGTGACGCGCGCGCATGGGGCCAGCGGTCGCGC 4

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US-10-299-054A-10430
RESULT 4
; Sequence 10430, Application US/10299054A
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Mycobacterium tuberculosis complete genome.
; FILE REFERENCE: Jim Zeeger Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/299,054A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 11910
; SOFTWARE: Proprietary
; SEQ ID NO: 10430
; LENGTH: 43
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis complete genome.
; FEATURE:
; LOCATION: (3933394)..(3933436)
; OTHER INFORMATION: Chromosome - 1 Strand - positive
US-10-299-054A-10430
ConnectronObjectNumber -

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	Query Match	1.6%	Score 25.6;	DB 7;	Length 43;
	Best Local Similarity	77.5%;	Pred. No. 8.le+04;		
	Matches 31; Conservative	0;	Mismatches 9;	Indels 0;	Gaps 0;
QY	1339	CCGCGCGGGACAGCGCGCGCGGAGCAGCGGGGCGGC	1378		
Dd	1	CCGCGCGCGTACGCGCGCGATGAGGCGCACGGCTTCGCC	40		



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; ORGANISM: Homo sapiens
US-10-303-778-10110
Query Match 1.6%; Score 25; DB 8; Length 25;
Best Local Similarity 100.0%; Pred. No. 9.8e+04;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1551 CCGGGGAGGGGGCGGCGGAGGCGC 1575
Db 25 CCGGGGAGGGGGCGGCGGAGGCGC 1

RESULT 10
US-60-427-808-296803
; Sequence 296803, Application US/60427808
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528
; CURRENT APPLICATION NUMBER: US/60/427,808
; CURRENT FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 296803
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-60-427-808-296803

Query Match 1.6%; Score 25; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 9.8e+04;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 895 CAGAGAGTCTTCTACGTATGAG 919
Db 1 CAGAGAGTCTTCTACGTATGAG 25

RESULT 11
US-60-427-808-634065
; Sequence 634065, Application US/60427808
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528
; CURRENT APPLICATION NUMBER: US/60/427,808
; CURRENT FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 634065
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-60-427-808-634065

Query Match 1.6%; Score 25; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 9.8e+04;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1441 GGGCATCCACTGTACTCGCAGCTG 1465
Db 1 GGGCATCCACTGTACTCGCAGCTG 25

RESULT 12
US-60-427-836-454485
; Sequence 454485, Application US/60427836
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527
; CURRENT APPLICATION NUMBER: US/60/427,836
; CURRENT FILING DATE: 2002-11-20

; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 454485
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-60-427-836-454485

Query Match 1.6%; Score 25; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 9.8e+04;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1441 GGGCATCCACTGTACTCGCAGCTG 1465
Db 1 GGGCATCCACTGTACTCGCAGCTG 25

RESULT 13
US-09-912-293-16672
; Sequence 16672, Application US/09912293
; GENERAL INFORMATION:
; APPLICANT: Rosen, et. al.
; TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 100
; FILE REFERENCE: FO-100
; CURRENT APPLICATION NUMBER: US/09/912,293
; CURRENT FILING DATE: 2001-07-26
; PRIOR APPLICATION NUMBER: 08/103,744
; PRIOR FILING DATE: 1993-08-09
; PRIOR APPLICATION NUMBER: 09/249,651
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: 08/104,507
; PRIOR FILING DATE: 1993-08-09
; PRIOR APPLICATION NUMBER: 08/196,363
; PRIOR FILING DATE: 1994-02-15
; PRIOR APPLICATION NUMBER: 09/859,490
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 08/196,362
; PRIOR FILING DATE: 1994-02-15
; PRIOR APPLICATION NUMBER: 08/221,623
; PRIOR FILING DATE: 1994-03-31
; PRIOR APPLICATION NUMBER: 08/220,691
; PRIOR FILING DATE: 1994-03-31
; PRIOR APPLICATION NUMBER: 09/741,830
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 09/813,155
; PRIOR FILING DATE: 2001-03-21
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 244538
; SEQ ID NO 16672
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (50)..(50)
; OTHER INFORMATION: n is equal to a,t,g, or c
US-09-912-293-16672

Query Match 1.6%; Score 25; DB 6; Length 50;
Best Local Similarity 69.4%; Pred. No. 1e+05;
Matches 34; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 5 GCGAGCGAGGAGAGAGAGCGGCGGCGGAGCGGAGGAGG 53
Db 1 GCGAGCGAGGAGAGAGAGCGGCGGCGGAGCGGAGGAGG 49

RESULT 14
US-10-351-951-54
; Sequence 54, Application US/10351951
; GENERAL INFORMATION:
; APPLICANT: Stefansson, Stefan E.
; TITLE OF INVENTION: GENE LINKED TO OSTEOARTHRITIS

```



LENGTH: 2  
TYPE: DNA

ORGANISM: Mus musculus  
US-60-427-808-765746

Query Match 1.5%; Score 23.4; DB 9; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.8e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 908 TACGTATGAGACGGCGCCG 932  
Db 1 TACGTATGAGACGGCTGGAGCCG 25

RESULT 20

US-60-427-808-807373  
Sequence 807373, Application US/60427808

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528

CURRENT APPLICATION NUMBER: US/60/427,808

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 807373

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-60-427-808-807373

Query Match 1.5%; Score 23.4; DB 9; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.8e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1248 TCATCGAGAGACACGCTGGCGCA 1272  
Db 1 TCATCGAGAGACACGCTGGCGCA 25

RESULT 21  
US-60-427-808-879497  
Sequence 879497, Application US/60427808

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528

CURRENT APPLICATION NUMBER: US/60/427,808

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 879497

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-60-427-808-879497

Query Match 1.5%; Score 23.4; DB 9; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.8e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 876 TGGACCGGAGACGGCGCCAGAA 900  
Db 1 TGGACCGGAGACGGCGCCAGAA 25

RESULT 22  
US-60-427-836-90500  
Sequence 90500, Application US/60427836

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Rat

FILE REFERENCE: 3527

CURRENT APPLICATION NUMBER: US/60/427,836

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 699466  
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
SEQ ID NO 90500  
LENGTH: 25  
TYPE: DNA  
ORGANISM: Rattus norvegicus  
US-60-427-836-90500

Query Match 1.5%; Score 23.4; DB 9; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.8e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1203 AGGCACCATCTCATCAACCGGT 1227  
Db 1 AGGCACCATCTCATCAACCGGT 25

RESULT 23  
US-60-427-836-238304  
Sequence 238304, Application US/60427836

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Rat

FILE REFERENCE: 3527

CURRENT APPLICATION NUMBER: US/60/427,836

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 699466

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 238304

LENGTH: 25

TYPE: DNA

ORGANISM: Rattus norvegicus

US-60-427-836-238304

Query Match 1.5%; Score 23.4; DB 9; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.8e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1249 CATCGAGAGACACGCTGGCGCAC 1273  
Db 1 CATCGAGAGACACGCTGGCGCAC 25

RESULT 24  
US-60-427-836-454484  
Sequence 454484, Application US/60427836

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Rat

FILE REFERENCE: 3527

CURRENT APPLICATION NUMBER: US/60/427,836

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 699466

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 454484

LENGTH: 25

TYPE: DNA

ORGANISM: Rattus norvegicus

US-60-427-836-454484

Query Match 1.5%; Score 23.4; DB 9; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.8e+05;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1441 GGCATCCACTGCTACGACGCTG 1465  
Db 1 GGCATCCACTGCTACGACGCTG 25

RESULT 25  
US-60-427-836-591791  
Sequence 591791, Application US/60427836

GENERAL INFORMATION:

```

; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527
; CURRENT APPLICATION NUMBER: US/60/427,836
; CURRENT FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 591791
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-60-427-836-591791

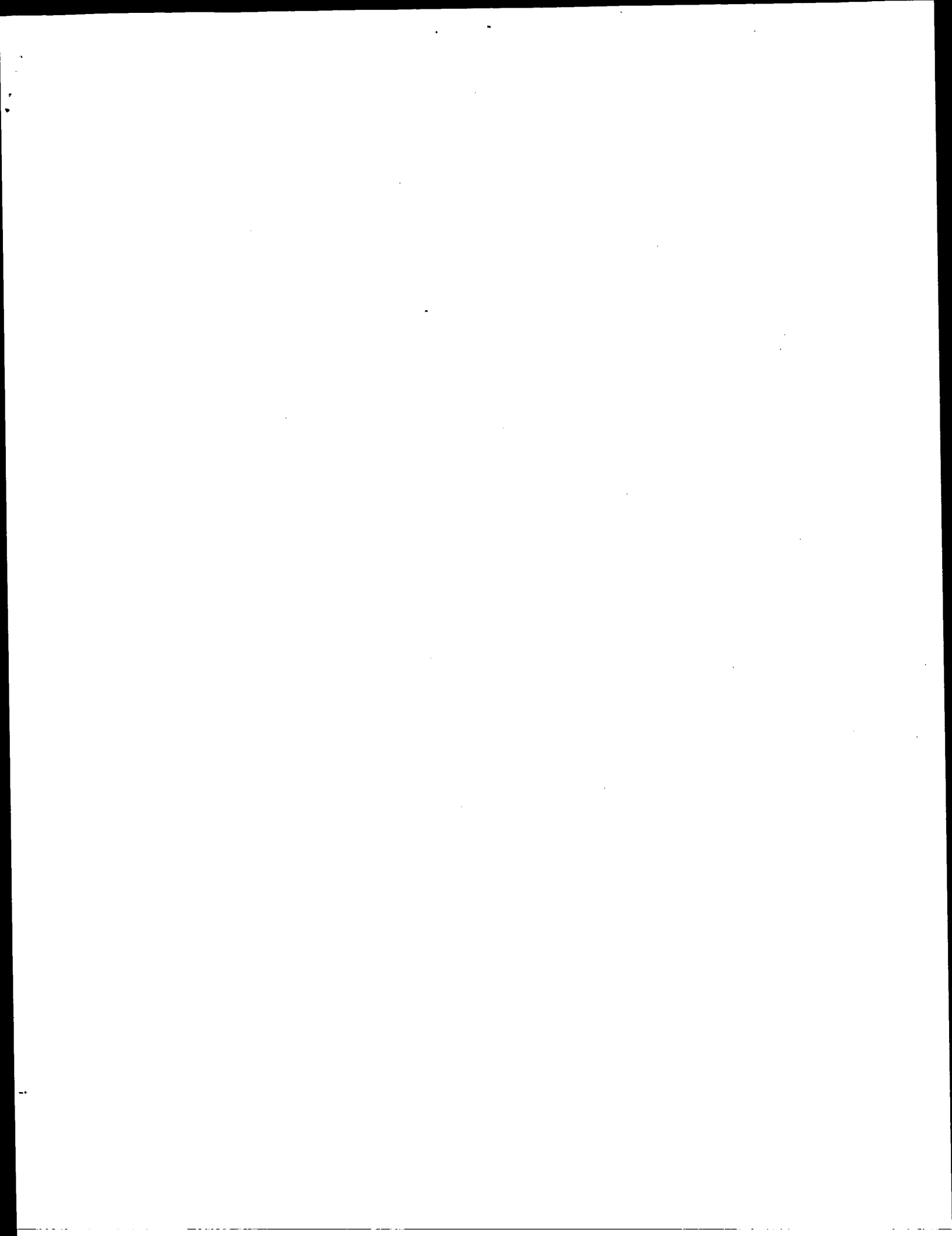
```

```

Query Match
Best Local Similarity 96.0%; Score 23.4; DB 9; Length 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1235 TCGTGCTACGCGGTCATCGAGAGC 1259
DB 1 TCGTGCTACGCGGTCATCGAGAGC 25

```

Search completed: March 14, 2003, 01:10:16  
Job time : 506 secs



score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

10514.906 Million cell updates/sec

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

searched: 2054640 seqs, 14551402878 residues

total number of hits satisfying chosen parameters: 841850

Minimum	DB	seq	length:	0
Maximum	DB	seq	length:	50

```
Post-processing: Minimum Match 0%
```

Listing first 1000 summaries

Database :

```

1:      genemb1.*
2:      gb_pa.*
3:      gb_hlg.*
4:      gb_in.*
5:      gb_om.*
6:      gb_ov.*
7:      gb_ph.*
8:      gb_pl.*
9:      gb_pr.*
10:     gb_ro.*
11:     gb_sis.*
12:     gb_sy.*
13:     gb_un.*
14:     gb_vl.*
15:     em_ba.*
16:     em_fun.*
17:     em_hum.*
18:     em_in.*
19:     em_mu.*
20:     em_om.*
21:     em_or.*
22:     em_ov.*
23:     em_pat.*
24:     em_ph.*
25:     em_pl.*
26:     em_ro.*
27:     em_sis.*
28:     em_un.*
29:     em_vl.*
30:     em_hlg_hum.*
31:     em_hlg_inv.*
32:     em_hlg_other.*
33:     em_hlg_mus.*
34:     em_hlg_pln.*
35:     em_hlg_prod.*
36:     em_hlg_nam.*
37:     em_hlg_vrt.*
38:     em_sy.*
39:     em_hgo_hum.*
40:     em_hgo_mus.*
41:     em_hgo_other.*

```

Pred. No. is the number of results predicted by chance to have a

Result No.	Score	Query Match	Length	DB	ID	Description
C 1	50	3.2	50	6	AX146582	AX146582 Sequence
C 2	48.4	3.1	50	6	AX146613	AX146613 Sequence
C 3	48.4	3.1	50	6	AX146614	AX146614 Sequence
C 4	45.2	2.9	50	6	AX146616	AX146616 Sequence
C 5	43.8	2.8	47	6	AX146608	AX146608 Sequence
C 6	43.8	2.8	47	6	AX146609	AX146609 Sequence
C 7	43.4	2.8	45	6	AX146612	AX146612 Sequence
C 8	41.4	2.7	50	6	AX146615	AX146615 Sequence
C 9	41.4	2.6	43	6	AX146617	AX146617 Sequence
C 10	40.6	2.6	47	6	AX146611	AX146611 Sequence
C 11	37.4	2.4	47	6	AX146610	AX146610 Sequence
C 12	31.4	2.0	40	6	AX057285	AJ270316 Homo sapi
C 13	27	1.7	27	9	HSAR70318	AR178318 Sequence
C 14	26	1.6	50	6	AR178318	AX057285 Sequence
C 15	26	1.6	50	6	AX323400	AX323400 Sequence
C 16	25	1.6	33	6	184406	184406 Sequence 7
C 17	24.6	1.6	33	6	AR19385	AR063105 Sequence
C 18	24	1.5	50	6	AR063105	AR122632 Sequence
C 19	24	1.5	24	6	AR122632	AR164260 Sequence
C 20	24	1.5	24	6	AR164260	AR208932 Sequence
C 21	24	1.5	24	6	AR208932	120760 Sequence 13
C 22	24	1.5	45	6	120760	184401 Sequence 2
C 23	23.6	1.5	30	6	184401	A01419 Malaria par
C 24	23.6	1.5	31	6	A01419	A62993 Sequence 5
C 25	22.4	1.4	32	6	A62993	AR179068 Sequence
C 26	22.4	1.4	43	6	AR179068	A28677 Oligonucleo
C 27	22.4	1.4	43	6	A28677	AX397845 Sequence
C 28	22.2	1.4	50	6	AX397845	AJ270315 Homo sapi
C 29	22	1.4	23	9	HSAR70315	AX146574 Sequence
C 30	22	1.4	29	6	AX146574	AXA17712 Sequence
C 31	22	1.4	29	6	AX146574	AXA17712 Sequence
C 32	22	1.4	44	6	A28674	A28674 dsRNA with
C 33	22	1.4	50	8	SSREP2	V01364 Scilla slide
C 34	21.8	1.4	35	6	I45648	I45648 Sequence 7
C 35	21.8	1.4	50	5	S72333	S72333 Enkephalin
C 36	21.8	1.4	50	5	S72333	M13246 X.laewis ri
C 37	21.6	1.4	40	6	A98997	A98997 Sequence 5
C 38	21.6	1.4	40	6	A98997	AR195314 Sequence
C 39	21.6	1.4	48	6	A21991	A21991 Oligonucleo
C 40	21.6	1.4	49	6	A21992	A21992 Oligonucleo
C 41	21.4	1.4	31	6	A62992	A62992 Sequence 4
C 42	21.4	1.4	31	6	A62992	AR179067 Sequence
C 43	21.4	1.4	31	6	AR179067	AR137495 Sequence
C 44	21.4	1.4	50	9	HSBHLXAI	X96914 H.sapiens H
C 45	21.2	1.3	49	6	AX397846	AX397846 Sequence
C 46	21.1	1.3	47	6	A28685	A28685 Oligonucleo
C 47	21	1.3	50	6	AR032762	AR032762 Sequence
C 48	21	1.3	50	6	AR209426	AR209426 Sequence
C 49	21	1.3	50	6	AX199622	AX199622 Sequence
C 50	21	1.3	50	6	I29502	A92687 Sequence 2
C 51	21	1.3	50	6	I51176	AX002787 Sequence
C 52	20.8	1.3	43	6	AX002786	AX145555 Sequence
C 53	20.8	1.3	43	6	AX145545	AX145545 Sequence
C 54	20.8	1.3	46	6	A92687	A92687 Sequence 2
C 55	20.8	1.3	47	6	AX002787	AX002787 Sequence
C 56	20.8	1.3	47	6	AX145555	AX145555 Sequence
C 57	20.8	1.3	47	6	AX279826	AX279826 Sequence
C 58	20.8	1.3	49	6	AX279826	A51123 Sequence 1
C 59	20.8	1.3	50	6	AX199605	AX199605 Sequence
C 60	20.8	1.3	38	6	AX207477	AX207477 Sequence
C 61	20.6	1.3	41	6	AX327055	AX327055 Sequence
C 62	20.6	1.3	45	6	A28678	A28678 Oligonucleo
C 63	20.6	1.3	45	6	A05111	A05111 Oligonucleo
C 64	20.6	1.3	45	6	A05111	A05111 Oligonucleo
C 65	20.6	1.3	45	6	AR145517	AR145517 Sequence

66	20.6	1.3	48	6	A47495	A47495 Sequence 2	C 139	19.2	1.2	49	6	AX107693	AX107693 Sequence
67	20.6	1.3	50	6	AX157874	AX157874 Sequence 2	C 140	19.2	1.2	49	6	I29533	I29533 Sequence 40
68	20.4	1.3	30	6	A62990	A62990 Sequence 2	C 141	19.2	1.2	49	6	I91207	I91207 Sequence 40
69	20.4	1.3	30	6	A62996	A62996 Sequence 8	C 142	19.2	1.2	50	6	AX160636	AX160636 Sequence
70	20.4	1.3	30	6	AR179065	AR179065 Sequence	C 143	19.2	1.2	50	6	I89841	I89841 Sequence 12
71	20.4	1.3	30	6	AR179071	AR179071 Sequence	C 144	19.2	1.2	50	6	AR154250	AR154250 Sequence
72	20.4	1.3	30	6	AX104904	AX104904 Sequence	C 145	19.2	1.2	19	6	AR154254	AR154254 Sequence
73	20.4	1.3	30	6	AX477343	AX477343 Sequence	C 146	19.2	1.2	19	6	AX146573	AX146573 Sequence
74	20.4	1.3	35	6	AX104579	AX104579 Sequence	C 147	19.2	1.2	30	6	AX147111	AX147111 Sequence
75	20.4	1.3	35	6	AX355144	AX355144 Sequence	C 148	19.2	1.2	35	6	AX252313	AX252313 Sequence
76	20.4	1.3	40	6	AR184470	AR184470 Sequence	C 149	19.2	1.2	35	6	A94124	A94124 Sequence 2
77	20.4	1.3	40	6	AX406837	AX406837 Sequence	C 150	19.2	1.2	36	6	AX014659	AX014659 Sequence
78	20.4	1.3	40	6	E13253	E13253 Oligonucleo	C 151	19.2	1.2	36	6	AX402097	AX402097 Sequence
79	20.4	1.3	41	6	AR106716	AR106716 Sequence	C 152	19.2	1.2	36	6	AX403811	AX403811 Sequence
80	20.4	1.3	41	6	AR202527	AR202527 Sequence	C 153	19.2	1.2	36	6	E50995	E50995 Hedgehog pr
81	20.4	1.3	44	6	AR199384	AR199384 Sequence	C 154	19.2	1.2	39	6	AX48819	AX48819 Sequence 11
82	20.4	1.3	49	6	A21777	A21777 Oligonucleo	C 155	19.2	1.2	39	6	AR201228	AR201228 Sequence
83	20.4	1.3	49	6	AX279808	AX279808 Sequence	C 156	19.2	1.2	39	6	AX081636	AX081636 Sequence
84	20.4	1.3	50	6	AR137494	AR137494 Sequence	C 157	19.2	1.2	41	6	AX374817	AX374817 Sequence
85	20.2	1.3	40	6	AX472253	AX472253 Sequence	C 158	19.2	1.2	41	6	AR206162	AR206162 Sequence
86	20.2	1.3	40	6	E05618	E05618 Primer for	C 159	19.2	1.2	43	6	AX180257	AX180257 Sequence
87	20.2	1.3	46	6	A92686	A92686 Sequence 1	C 160	19.2	1.2	44	6	E11299	E11299 PCR primer
88	20.2	1.3	46	6	A92686	A92686 Sequence 1	C 161	19.2	1.2	46	6	AX054319	AX054319 Sequence
89	20.2	1.3	46	6	AR032473	AR032473 Sequence	C 162	19.2	1.2	46	6	HS034722	HS034722 Sequence
90	20.2	1.3	46	6	AR209137	AR209137 Sequence	C 163	19.2	1.2	46	6	AX054825	AX054825 Sequence
91	20.2	1.3	46	6	I29213	I29213 Sequence 85	C 164	19.2	1.2	47	6	AX057285	AX057285 Sequence
92	20.2	1.3	46	6	E190887	E190887 Sequence 85	C 165	19.2	1.2	48	6	AX057285	AX057285 Sequence
93	20.2	1.3	47	6	AR071857	AR071857 Sequence	C 166	19.2	1.2	50	6	HS034722	HS034722 Sequence
94	20.2	1.3	47	6	AR112597	AR112597 Sequence	C 167	19.2	1.2	50	6	AX057285	AX057285 Sequence
95	20.2	1.3	48	6	AR129985	AR129985 Sequence	C 168	19.2	1.2	50	6	HS034722	HS034722 Sequence
96	20.2	1.3	48	6	AR205077	AR205077 Sequence	C 169	19.2	1.2	50	6	HS034722	HS034722 Sequence
97	20.2	1.3	48	6	AX149574	AX149574 Sequence	C 170	19.2	1.2	50	6	HS034722	HS034722 Sequence
98	20.2	1.3	36	6	AX356948	AX356948 Sequence	C 171	19.2	1.2	32	6	AX108708	AX108708 Sequence
99	20.2	1.3	36	6	AR116992	AR116992 Sequence	C 172	19.2	1.2	38	6	AR201228	AR201228 Sequence
100	20.2	1.3	45	6	AX080806	AX080806 Sequence	C 173	19.2	1.2	39	6	AX080628	AX080628 Sequence
101	20.2	1.3	45	6	AX191434	AX191434 Sequence	C 174	19.2	1.2	40	6	AR055062	AR055062 Sequence
102	20.2	1.3	45	6	AX403235	AX403235 Sequence	C 175	19.2	1.2	40	6	AR156311	AR156311 Sequence
103	20.2	1.3	45	6	I30008	I30008 Sequence 14	C 176	19.2	1.2	41	6	AX288072	AX288072 Sequence
104	20.2	1.3	45	6	I93784	I93784 Sequence 14	C 177	19.2	1.2	42	6	AX38181	AX38181 Sequence 25
105	20.2	1.3	47	12	SYNPRMA	SYNPRMA Sequence 14	C 178	19.2	1.2	42	6	AX288063	AX288063 Sequence
106	20.2	1.3	50	6	AR024001	AR024001 Sequence	C 179	19.2	1.2	44	6	AX288064	AX288064 Sequence
107	20.2	1.3	50	6	E12787	E12787 DNA probe f	C 180	19.2	1.2	44	6	A37850	A37850 Sequence 20
108	19.8	1.3	47	6	AX194734	AX194734 Sequence	C 181	19.2	1.2	44	6	AR069888	AR069888 Sequence
109	19.8	1.3	50	6	E00071	E00071 Partial CDN	C 182	19.2	1.2	44	6	AR099285	AR099285 Sequence
110	19.6	1.2	42	6	AR210880	AR210880 Sequence	C 183	19.2	1.2	44	6	AR124169	AR124169 Sequence
111	19.6	1.2	45	6	AX027549	AX027549 Sequence	C 184	19.2	1.2	44	6	E43912	E43912 Novel vecto
112	19.6	1.2	46	6	E32206	E32206 Method for	C 185	19.2	1.2	45	6	AX068136	AX068136 Sequence
113	19.6	1.2	48	6	AX207748	AX207748 Sequence	C 186	19.2	1.2	45	6	AX068137	AX068137 Sequence
114	19.6	1.2	50	6	I18452	I18452 Sequence 75	C 187	19.2	1.2	45	6	AX068139	AX068139 Sequence
115	19.4	1.2	29	6	AX288078	AX288078 Sequence	C 188	19.2	1.2	45	6	E02957	E02957 Signal repe
116	19.4	1.2	33	6	AX11717	AX11717 Oligonucleo	C 189	19.2	1.2	46	6	AX190432	AX190432 Sequence
117	19.4	1.2	33	6	AX11718	AX11718 Oligonucleo	C 190	19.2	1.2	47	6	AR055043	AR055043 Sequence
118	19.4	1.2	33	6	I14316	I14316 Sequence 13	C 191	19.2	1.2	47	6	AR156292	AR156292 Sequence
119	19.4	1.2	37	6	AX288079	AX288079 Sequence	C 192	19.2	1.2	48	6	AR101902	AR101902 Sequence
120	19.4	1.2	43	6	AR161404	AR161404 Sequence	C 193	19.2	1.2	48	6	AR130422	AR130422 Sequence
121	19.4	1.2	49	6	AX04202	AX04202 Nucleotide	C 194	19.2	1.2	48	6	AX278749	AX278749 Sequence
122	19.4	1.2	49	6	AX157798	AX157798 Sequence	C 195	19.2	1.2	48	6	AX279916	AX279916 Sequence
123	19.4	1.2	50	6	AX202437	AX202437 Sequence	C 196	19.2	1.2	49	6	AX279656	AX279656 Sequence
124	19.2	1.2	24	6	AX327693	AX327693 Sequence	C 197	19.2	1.2	49	6	AX279677	AX279677 Sequence
125	19.2	1.2	33	6	AX326735	AX326735 Sequence	C 198	19.2	1.2	49	6	AX279825	AX279825 Sequence
126	19.2	1.2	36	6	AR193727	AR193727 Sequence	C 199	19.2	1.2	50	6	AX351171	AX351171 Sequence
127	19.2	1.2	41	6	E13926	E13926 Primer 4/1	C 200	19.2	1.2	25	6	AR028113	AR028113 Sequence
128	19.2	1.2	41	6	E16035	E16035 DNA primer	C 201	19.2	1.2	25	6	AR030289	AR030289 Sequence
129	19.2	1.2	42	6	AR035287	AR035287 Sequence	C 202	19.2	1.2	25	6	I42108	I42108 Sequence 3
130	19.2	1.2	44	6	AR035287	AR035287 Sequence	C 203	19.2	1.2	28	6	AX010555	AX010555 Sequence
131	19.2	1.2	45	6	AX068135	AX068135 Sequence	C 204	19.2	1.2	36	6	AX050277	AX050277 Sequence
132	19.2	1.2	45	6	I20761	I20761 Sequence 14	C 205	19.2	1.2	38	6	AX059027	AX059027 Sequence
133	19.2	1.2	47	6	AR050771	AR050771 Sequence	C 206	19.2	1.2	44	6	A94787	A94787 Sequence 31
134	19.2	1.2	47	6	AR101775	AR101775 Sequence	C 207	19.2	1.2	44	6	E11304	E11304 PCR primer
135	19.2	1.2	48	6	AR073450	AR073450 Sequence	C 208	19.2	1.2	45	6	AR118818	AR118818 Sequence
136	19.2	1.2	48	6	AX222000	AX222000 Sequence	C 209	19.2	1.2	45	6	AX080806	AX080806 Sequence
137	19.2	1.2	49	6	AR032793	AR032793 Sequence	C 210	19.2	1.2	45	6	AX191434	AX191434 Sequence
138	19.2	1.2	49	6	AR209457	AR209457 Sequence	C 211	19.2	1.2	45	6	AX403235	AX403235 Sequence

C 212	18.6	1.2	48	6	A47501	A47501 Sequence 8	285	18.2	1.2	48	6	AR202324	AR202324 Sequence
C 213	18.6	1.2	48	6	AX207747	AX207747 Sequence	286	18.2	1.2	48	6	AX059009	AX059009 Sequence
C 214	18.6	1.2	49	6	AR014134	AR014134 Sequence	287	18.2	1.2	48	6	AX229277	AX229277 Sequence
C 215	18.6	1.2	49	6	AX278779	AX278779 Sequence	288	18.2	1.2	48	6	AX453570	AX453570 Sequence
C 216	18.6	1.2	49	6	AX279676	AX279676 Sequence	289	18.2	1.2	48	6	106257	Sequence 15
C 217	18.6	1.2	49	6	AX279946	AX279946 Sequence	290	18.2	1.2	48	6	S34436	glycoprotein
C 218	18.6	1.2	49	6	118451	Sequence 74	291	18.2	1.2	48	6	AX279658	Sequence
C 219	18.6	1.2	50	6	AR032851	AR032851 Sequence	292	18.2	1.2	49	6	AX279675	Sequence
C 220	18.6	1.2	50	6	AR209515	AR209515 Sequence	293	18.2	1.2	49	6	AX279727	Sequence
C 221	18.6	1.2	50	6	AX157405	AX157405 Sequence	294	18.2	1.2	50	6	AR032719	Sequence
C 222	18.6	1.2	50	6	129591	Sequence 46	295	18.2	1.2	50	6	AR145250	Sequence
C 223	18.6	1.2	50	6	191265	Sequence 46	296	18.2	1.2	50	6	AR161854	Sequence
C 224	18.4	1.2	28	6	AX104578	AX104578 Sequence	297	18.2	1.2	50	6	AX161854	Sequence
C 225	18.4	1.2	31	6	AX355143	AX355143 Sequence	298	18.2	1.2	50	6	AX204297	Sequence
C 226	18.4	1.2	32	6	AX249029	AX249029 Sequence	300	18.2	1.2	50	6	129459	Sequence
C 227	18.4	1.2	33	6	AX288071	AX288071 Sequence	301	18.2	1.2	50	6	191133	Sequence
C 228	18.4	1.2	33	6	AX068142	AX068142 Sequence	302	18.2	1.2	50	10	MW1MW47	
C 229	18.4	1.2	36	6	AX356940	AX356940 Sequence	303	18	1.1	18	6	AR154251	Sequence
C 230	18.4	1.2	42	6	100662	Sequence 3	304	18	1.1	27	6	AR040322	Sequence
C 231	18.4	1.2	43	6	A50977	Sequence 18	305	18	1.1	36	6	AR084542	Sequence
C 232	18.4	1.2	44	6	AR086388	AR086388 Sequence	306	18	1.1	36	6	AR206158	Sequence
C 233	18.4	1.2	44	6	AX001092	AX001092 Sequence	307	18	1.1	39	6	AR200691	Sequence
C 234	18.4	1.2	45	6	AX231579	AX231579 Sequence	308	18	1.1	39	6	106515	Sequence
C 235	18.4	1.2	45	6	160574	Sequence 31	309	18	1.1	41	6	A38183	Sequence
C 236	18.4	1.2	47	6	AX211584	AX211584 Sequence	310	18	1.1	42	6	A42175	Sequence
C 237	18.4	1.2	47	6	AX429816	AX429816 Sequence	311	18	1.1	42	6	A50686	Sequence
C 238	18.4	1.2	47	6	184675	Sequence 9	312	18	1.1	42	6	A50722	Sequence
C 239	18.4	1.2	48	6	AX207754	AX207754 Sequence	313	18	1.1	42	6	AR004820	Sequence
C 240	18.4	1.2	48	6	AX253583	AX253583 Sequence	314	18	1.1	42	6	AR035286	Sequence
C 241	18.4	1.2	49	6	AR032793	AR032793 Sequence	315	18	1.1	42	6	AR051254	Sequence
C 242	18.4	1.2	49	6	AR209457	AR209457 Sequence	316	18	1.1	42	6	AR083317	Sequence
C 243	18.4	1.2	49	6	AX279597	AX279597 Sequence	317	18	1.1	42	6	AR116201	Sequence
C 244	18.4	1.2	49	6	AX279820	AX279820 Sequence	318	18	1.1	42	6	AX009738	Sequence
C 245	18.4	1.2	49	6	129533	Sequence 40	319	18	1.1	42	6	128383	Sequence
C 246	18.4	1.2	50	6	191207	Sequence 40	320	18	1.1	42	6	171226	Sequence
C 247	18.4	1.2	50	6	A07724	A07724 Oligonucleo	321	18	1.1	43	6	A04391	Sequence
C 248	18.4	1.2	50	6	A10023	A10023 Nucleotide	322	18	1.1	43	6	A81880	Sequence
C 249	18.4	1.2	50	6	AR032514	AR032514 Sequence	323	18	1.1	43	6	AR120683	Sequence
C 250	18.4	1.2	50	6	AR032869	AR032869 Sequence	324	18	1.1	43	6	AX322481	Sequence
C 251	18.4	1.2	50	6	AR209178	AR209178 Sequence	325	18	1.1	43	6	134859	Sequence
C 252	18.4	1.2	50	6	AR209533	AR209533 Sequence	326	18	1.1	44	6	AX297758	Sequence
C 253	18.4	1.2	50	6	AX019535	AX019535 Sequence	327	18	1.1	45	6	AX068135	Sequence
C 254	18.4	1.2	50	6	AX162468	AX162468 Sequence	328	18	1.1	45	6	AR157388	Sequence
C 255	18.4	1.2	50	6	AX165817	AX165817 Sequence	329	18	1.1	45	6	AX004805	Sequence
C 256	18.4	1.2	50	6	AX426994	AX426994 Sequence	330	18	1.1	47	6	AX004827	Sequence
C 257	18.4	1.2	50	6	129254	Sequence 12	331	18	1.1	47	6	AX195051	Sequence
C 258	18.4	1.2	50	6	129609	Sequence 12	332	18	1.1	48	6	AR032591	Sequence
C 259	18.4	1.2	50	6	190928	Sequence 12	333	18	1.1	48	6	AR184250	Sequence
C 260	18.4	1.2	50	6	191283	Sequence 12	334	18	1.1	48	6	AR184371	Sequence
C 261	18.4	1.2	24	6	AR063245	AR063245 Sequence	335	18	1.1	48	6	AR209255	Sequence
C 262	18.2	1.2	25	6	E16681	E16681 Primer. 7/1	336	18	1.1	48	6	AX127962	Sequence
C 263	18.2	1.2	35	6	AR202292	AR202292 Sequence	337	18	1.1	48	6	AX235582	Sequence
C 264	18.2	1.2	39	6	AR033894	AR033894 Sequence	338	18	1.1	48	6	E13605	Sequence
C 265	18.2	1.2	39	6	AR175027	AR175027 Sequence	339	18	1.1	48	6	129331	Sequence
C 266	18.2	1.2	39	6	AX032459	AX032459 Sequence	340	18	1.1	48	6	191005	Sequence
C 267	18.2	1.2	40	6	E11415	E11415 Primer. 9/1	341	18	1.1	49	6	AX279622	Sequence
C 268	18.2	1.2	40	6	AR079790	AR079790 Sequence	342	18	1.1	49	6	AX279645	Sequence
C 269	18.2	1.2	40	6	AR081320	AR081320 Sequence	343	18	1.1	50	6	F292317504	Sequence
C 270	18.2	1.2	40	6	AR170680	AR170680 Sequence	344	18	1.1	50	6	AR014135	Sequence
C 271	18.2	1.2	41	6	A38185	A38185 Sequence 29	345	18	1.1	50	6	AR032762	Sequence
C 272	18.2	1.2	42	6	AX077421	AX077421 Sequence	346	18	1.1	50	6	AR032862	Sequence
C 273	18.2	1.2	43	6	AX456423	AX456423 Sequence	347	18	1.1	50	6	AR162078	Sequence
C 274	18.2	1.2	45	6	AR071841	AR071841 Sequence	348	18	1.1	50	6	AR166603	Sequence
C 275	18.2	1.2	45	6	AR112581	AR112581 Sequence	349	18	1.1	50	6	AR209426	Sequence
C 276	18.2	1.2	45	9	HSBTA1G1B	HSBTA1G1B Sequence	350	18	1.1	50	6	AR209526	Sequence
C 277	18.2	1.2	46	6	AR032572	AR032572 Sequence	351	18	1.1	50	6	AX019536	Sequence
C 278	18.2	1.2	46	6	AR029336	AR029336 Sequence	352	18	1.1	50	6	AX159942	Sequence
C 279	18.2	1.2	46	6	129312	Sequence 18	353	18	1.1	50	6	AX160484	Sequence
C 280	18.2	1.2	46	6	190986	Sequence 18	354	18	1.1	50	6	BD002070	Sequence
C 281	18.2	1.2	47	6	AX278807	AX278807 Sequence	355	18	1.1	50	6	129502	Sequence
C 282	18.2	1.2	47	6	AX279974	AX279974 Sequence	356	18	1.1	50	6	131257	Sequence
C 283	18.2	1.2	47	10	MUSTGHV	M22392 Mouse Ig ge	357	18	1.1	50	6	191176	Sequence 37
C 284	18.2	1.2	48	6	A62955	A62955 Sequence 19							

C 358	18	1.1	50	6	191276	191276 Sequence 47	C 431	17.6	1.1	45	6	AR026070	AR026070 Sequence
C 359	17.8	1.1	21	6	AR177692	AR177692 Sequence	432	17.6	1.1	45	6	AR085812	AR085812 Sequence
C 360	17.8	1.1	31	6	AX248046	AX248046 Sequence	433	17.6	1.1	45	6	AX010369	AX010369 Sequence
C 361	17.8	1.1	31	6	AX249447	AX249447 Sequence	C 434	17.6	1.1	45	6	AX010370	AX010370 Sequence
C 362	17.8	1.1	39	6	AX202296	AX202296 Sequence	435	17.6	1.1	45	6	AX472849	AX472849 Sequence
C 363	17.8	1.1	39	6	AX250377	AX250377 Sequence	C 436	17.6	1.1	45	6	AX472850	AX472850 Sequence
C 364	17.8	1.1	44	6	EL1301	EL1301 PCR primer	C 437	17.6	1.1	45	6	192648	192648 Sequence 22
C 365	17.8	1.1	45	6	AR032679	AR032679 Sequence	C 438	17.6	1.1	45	6	AF0430234	AF0430234 Sequence 54
C 366	17.8	1.1	45	6	AR040714	AR040714 Sequence	C 439	17.6	1.1	46	6	AX38210	AX38210 Sequence
C 367	17.8	1.1	45	6	AR141182	AR141182 Sequence	C 440	17.6	1.1	46	6	AX157711	AX157711 Sequence
C 368	17.8	1.1	45	6	AR141183	AR141183 Sequence	C 441	17.6	1.1	46	6	122397	122397 Sequence 5
C 369	17.8	1.1	45	6	AR209343	AR209343 Sequence	C 442	17.6	1.1	47	6	AX35623	AX35623 Sequence 3
C 370	17.8	1.1	45	6	129419	129419 Sequence 29	C 443	17.6	1.1	47	6	AR3558	AR3558 Sequence 3
C 371	17.8	1.1	45	6	191093	191093 Sequence 29	C 444	17.6	1.1	47	6	AR176118	AR176118 Sequence
C 372	17.8	1.1	46	6	AR8794	AR8794 Sequence 28	C 445	17.6	1.1	47	6	AR182398	AR182398 Sequence
C 373	17.8	1.1	46	6	112506	112506 Sequence 27	C 446	17.6	1.1	47	6	AX194778	AX194778 Sequence
C 374	17.8	1.1	46	6	112507	112507 Sequence 29	C 447	17.6	1.1	48	6	AX14922	AX14922 oligonucleo
C 375	17.8	1.1	46	6	112508	112508 Sequence 31	C 448	17.6	1.1	48	6	AI9431	AI9431 AB1024 olig
C 376	17.8	1.1	46	6	112509	112509 Sequence 32	C 449	17.6	1.1	48	6	AR026089	AR026089 Sequence
C 377	17.8	1.1	46	6	AR086675	AR086675 Sequence	C 450	17.6	1.1	48	6	AR195131	AR195131 Sequence
C 378	17.8	1.1	47	6	AX252287	AX252287 Sequence	C 451	17.6	1.1	48	6	113412	113412 Sequence 14
C 379	17.8	1.1	47	6	MUSIGHV	M22392 Mouse Ig ge	C 452	17.6	1.1	48	6	S68399	S68399 TCR V beta
C 380	17.8	1.1	48	6	AI8448	AI8448 oligonucleo	C 453	17.6	1.1	49	6	AR032650	AR032650 Sequence
C 381	17.8	1.1	48	6	AR000192	AR000192 Sequence	C 454	17.6	1.1	49	6	AR209314	AR209314 Sequence
C 382	17.8	1.1	49	6	AX207753	AX207753 Sequence	C 455	17.6	1.1	49	6	AX278769	AX278769 Sequence
C 383	17.8	1.1	49	6	A27752	A27752 Plasmid seq	C 456	17.6	1.1	49	6	AX279936	AX279936 Sequence
C 384	17.8	1.1	50	6	AI4174	AI4174 vectorlet	C 457	17.6	1.1	49	6	191064	191064 Sequence 26
C 385	17.8	1.1	50	6	AI4176	AI4176 vectorlet	C 458	17.6	1.1	49	6	HUMNRCOP25	HUMNRCOP25 Sequence 26
C 386	17.8	1.1	50	6	AI4198	AI4198 specific ve	C 459	17.6	1.1	49	6	191064	191064 Sequence 26
C 387	17.8	1.1	50	6	AR032925	AR032925 Sequence	C 460	17.6	1.1	49	6	MUSIGHV	M26303 Mus musculi
C 388	17.8	1.1	50	6	AR032925	AR032925 Sequence	C 461	17.6	1.1	50	6	AR032912	AR032912 Sequence
C 389	17.8	1.1	50	6	AR209589	AR209589 Sequence	C 462	17.6	1.1	50	6	AR032979	AR032979 Sequence
C 390	17.8	1.1	50	6	AX157456	AX157456 Sequence	C 463	17.6	1.1	50	6	AR091514	AR091514 Sequence
C 391	17.8	1.1	50	6	129665	129665 Sequence 53	C 464	17.6	1.1	50	6	AR153394	AR153394 Sequence
C 392	17.8	1.1	50	6	191339	191339 Sequence 53	C 465	17.6	1.1	50	6	AR153394	AR153394 Sequence
C 393	17.8	1.1	50	9	AF057500	AF057500 Homo sapi	C 466	17.6	1.1	50	6	AR157999	AR157999 Sequence
C 394	17.8	1.1	50	9	AF057514	AF057514 Homo sapi	C 467	17.6	1.1	50	6	AR174322	AR174322 Sequence
C 395	17.8	1.1	50	9	AF176985S5	AF176985 Homo sapi	C 468	17.6	1.1	50	6	AR183306	AR183306 Sequence
C 396	17.8	1.1	50	9	HSXK1D4	X56920 H.sapiens H	C 469	17.6	1.1	50	6	AR209576	AR209576 Sequence
C 397	17.8	1.1	50	9	AX010556	AX010556 Sequence	C 470	17.6	1.1	50	6	AR209643	AR209643 Sequence
C 398	17.8	1.1	50	9	AX183895	AX183895 Sequence	C 471	17.6	1.1	50	6	AR210478	AR210478 Sequence
C 399	17.8	1.1	50	9	AX343761	AX343761 Sequence	C 472	17.6	1.1	50	6	AX080358	AX080358 Sequence
C 400	17.8	1.1	50	9	BD002916	BD002916 Gene comp	C 473	17.6	1.1	50	6	AX159414	AX159414 Sequence
C 401	17.8	1.1	50	9	AR182071	AR182071 Sequence	C 474	17.6	1.1	50	6	AX196605	AX196605 Sequence
C 402	17.8	1.1	50	9	AR00833	AR00833 Adapter (re	C 475	17.6	1.1	50	6	AX233378	AX233378 Sequence
C 403	17.8	1.1	50	9	AI6002	AI6002 adapter mol	C 476	17.6	1.1	50	6	129652	129652 Sequence 52
C 404	17.8	1.1	50	9	AR003387	AR003387 Sequence	C 477	17.6	1.1	50	6	129719	129719 Sequence 59
C 405	17.8	1.1	50	9	121176	121176 Sequence 22	C 478	17.6	1.1	50	6	191326	191326 Sequence 59
C 406	17.8	1.1	50	9	174443	174443 Sequence 22	C 479	17.6	1.1	50	6	191393	191393 Sequence 59
C 407	17.8	1.1	50	9	AA7503	AA7503 Sequence 10	C 480	17.6	1.1	50	6	MMU41953	MMU41953 Mus musculi
C 408	17.8	1.1	50	9	AR123709	AR123709 Sequence	C 481	17.4	1.1	50	6	AX014658	AX014658 Sequence
C 409	17.8	1.1	50	9	AR206158	AR206158 Sequence	C 482	17.4	1.1	50	6	AX014658	AX014658 Sequence
C 410	17.8	1.1	50	9	134917	134917 Sequence 3	C 483	17.4	1.1	50	6	E50994	E50994 Hedgehog pr
C 411	17.8	1.1	50	9	134917	134917 Sequence 3	C 484	17.4	1.1	50	6	E04986	E04986 DNA sequenc
C 412	17.8	1.1	50	9	134917	134917 Sequence 3	C 485	17.4	1.1	50	6	E04987	E04987 DNA sequenc
C 413	17.8	1.1	50	9	134917	134917 Sequence 3	C 486	17.4	1.1	50	6	AR199381	AR199381 Sequence
C 414	17.8	1.1	50	9	134917	134917 Sequence 3	C 487	17.4	1.1	50	6	EL14027	EL14027 Probe. 7/19
C 415	17.8	1.1	50	9	134917	134917 Sequence 3	C 488	17.4	1.1	50	6	AX248134	AX248134 Sequence
C 416	17.8	1.1	50	9	134917	134917 Sequence 3	C 489	17.4	1.1	50	6	AX248140	AX248140 Sequence
C 417	17.8	1.1	50	9	134917	134917 Sequence 3	C 490	17.4	1.1	50	6	AX248880	AX248880 Sequence
C 418	17.8	1.1	50	9	134917	134917 Sequence 3	C 491	17.4	1.1	50	6	AX248880	AX248880 Sequence
C 419	17.8	1.1	50	9	134917	134917 Sequence 3	C 492	17.4	1.1	50	6	AX249132	AX249132 Sequence
C 420	17.8	1.1	50	9	134917	134917 Sequence 3	C 493	17.4	1.1	50	6	AR049526	AR049526 Sequence
C 421	17.8	1.1	50	9	134917	134917 Sequence 3	C 494	17.4	1.1	50	6	AR065731	AR065731 Sequence
C 422	17.8	1.1	50	9	134917	134917 Sequence 3	C 495	17.4	1.1	50	6	AR171308	AR171308 Sequence
C 423	17.8	1.1	50	9	134917	134917 Sequence 3	C 496	17.4	1.1	50	6	AX080146	AX080146 Sequence
C 424	17.8	1.1	50	9	134917	134917 Sequence 3	C 497	17.4	1.1	50	6	AX201766	AX201766 Sequence
C 425	17.8	1.1	50	9	134917	134917 Sequence 3	C 498	17.4	1.1	50	6	AR104430	AR104430 Sequence
C 426	17.8	1.1	50	9	134917	134917 Sequence 3	C 499	17.4	1.1	50	6	178169	178169 Sequence 87
C 427	17.8	1.1	50	9	134917	134917 Sequence 3	C 500	17.4	1.1	50	6	AX228019	AX228019 Sequence
C 428	17.8	1.1	50	9	134917	134917 Sequence 3	C 501	17.4	1.1	50	6	AR021293	AR021293 Sequence
C 429	17.8	1.1	50	9	134917	134917 Sequence 3	C 502	17.4	1.1	50	6	AR129336	AR129336 Sequence
C 430	17.8	1.1	50	9	134917	134917 Sequence 3	C 503	17.4	1.1	50	6	AR160091	AR160091 Sequence



C 504	17.4	1.1	39	6	AX350023	AX350023 Sequence	577	17.2	1.1	36	6	AR3219	AR3219 Sequence 39
C 505	17.4	1.1	41	6	AI3533	AI3533 Oligonucleo	578	17.2	1.1	36	6	AR182945	AR182945 Sequence
C 506	17.4	1.1	41	6	AI3534	AI3534 Oligonucleo	579	17.2	1.1	37	6	AR108958	AR108958 Sequence
C 507	17.4	1.1	41	6	AX006150	AX006150 Sequence	580	17.2	1.1	39	6	AX283647	AX283647 Sequence
C 508	17.4	1.1	41	6	AX327045	AX327045 Sequence	581	17.2	1.1	39	6	AX283647	AX283647 Sequence
C 509	17.4	1.1	41	6	AX327070	AX327070 Sequence	582	17.2	1.1	39	10	S86273	S86273 TCR V beta
C 510	17.4	1.1	42	6	AX166901	AX166901 Sequence	583	17.2	1.1	40	6	AI19014	AI19014 Oligonucleo
C 511	17.4	1.1	42	6	E26049	E26049 Peptide Itra	584	17.2	1.1	40	6	I12505	I12505 Sequence 26
C 512	17.4	1.1	42	6	I95011	I95011 Sequence 28	585	17.2	1.1	41	6	A38186	A38186 Sequence 28
C 513	17.4	1.1	43	6	AX483436	AX483436 Sequence	586	17.2	1.1	41	6	A38186	A38186 Sequence 30
C 514	17.4	1.1	43	6	I00832	I00832 Sequence 3	587	17.2	1.1	41	6	A38204	A38204 Sequence 48
C 515	17.4	1.1	43	6	I00841	I00841 Sequence 4	588	17.2	1.1	42	6	AR016437	AR016437 Sequence
C 516	17.4	1.1	43	6	I06027	I06027 Sequence 1	589	17.2	1.1	42	6	AR058948	AR058948 Sequence
C 517	17.4	1.1	44	6	AR032540	AR032540 Sequence	590	17.2	1.1	42	6	AR097752	AR097752 Sequence
C 518	17.4	1.1	44	6	AR0209204	AR0209204 Sequence	591	17.2	1.1	42	6	AR105222	AR105222 Sequence
C 519	17.4	1.1	44	6	AX112010	AX112010 Sequence	592	17.2	1.1	42	6	AR119143	AR119143 Sequence
C 520	17.4	1.1	44	6	I29280	I29280 Sequence 15	593	17.2	1.1	42	6	AR123514	AR123514 Sequence
C 521	17.4	1.1	44	6	I90954	I90954 Sequence 15	594	17.2	1.1	42	6	AR18167	AR18167 Sequence
C 522	17.4	1.1	44	6	HUMTCVD1BL	HUMTCVD1BL	595	17.2	1.1	42	6	AR176728	AR176728 Sequence
C 523	17.4	1.1	44	9	HUMTCVJ29	HUMTCVJ29	596	17.2	1.1	42	6	AX193899	AX193899 Sequence
C 524	17.4	1.1	45	6	A05111	A05111 Oligonucleo	597	17.2	1.1	42	6	AX46992	AX46992 Sequence
C 525	17.4	1.1	45	6	AR032587	AR032587 Sequence	598	17.2	1.1	43	6	AR013755	AR013755 Sequence
C 526	17.4	1.1	45	6	AR168032	AR168032 Sequence	599	17.2	1.1	43	6	AX135623	AX135623 Sequence
C 527	17.4	1.1	45	6	AR204803	AR204803 Sequence	600	17.2	1.1	43	6	AX466471	AX466471 Sequence
C 528	17.4	1.1	45	6	AR209251	AR209251 Sequence	601	17.2	1.1	44	6	E11302	E11302 PCR primer
C 529	17.4	1.1	45	6	I29327	I29327 Sequence 19	602	17.2	1.1	44	6	E23267	E23267 Anti-HBs mo
C 530	17.4	1.1	46	6	I91001	I91001 Sequence 70	603	17.2	1.1	44	6	I82392	I82392 Sequence 28
C 531	17.4	1.1	46	6	I27049	I27049 Sequence 11	604	17.2	1.1	45	6	AR145517	AR145517 Sequence
C 532	17.4	1.1	47	6	AR032401	AR032401 Sequence	605	17.2	1.1	45	6	AX027553	AX027553 Sequence
C 533	17.4	1.1	47	6	AR209065	AR209065 Sequence	606	17.2	1.1	46	6	AX98793	AX98793 Sequence 26
C 534	17.4	1.1	47	6	AX004828	AX004828 Sequence	607	17.2	1.1	46	6	AR032571	AR032571 Sequence
C 535	17.4	1.1	47	6	AX004830	AX004830 Sequence	608	17.2	1.1	46	6	AR209235	AR209235 Sequence
C 536	17.4	1.1	47	6	AX080981	AX080981 Sequence	609	17.2	1.1	46	6	I29311	I29311 Sequence 18
C 537	17.4	1.1	47	6	AX040877	AX040877 Sequence	610	17.2	1.1	46	6	AR169657	AR169657 Sequence
C 538	17.4	1.1	47	6	I29141	I29141 Sequence 13	611	17.2	1.1	47	6	AX004829	AX004829 Sequence
C 539	17.4	1.1	48	6	I90815	I90815 Sequence 8	612	17.2	1.1	47	6	AX010672	AX010672 Sequence
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C 541	17.4	1.1	48	6	A62956	A62956 Sequence 19	614	17.2	1.1	47	6	AX254660	AX254660 Sequence
C 542	17.4	1.1	48	6	A97298	A97298 Sequence 15	615	17.2	1.1	47	6	E58964	E58964 Novel pepti
C 543	17.4	1.1	48	6	AX150273	AX150273 Sequence	616	17.2	1.1	47	6	AI16034	AI16034 Oligonucleo
C 544	17.4	1.1	49	6	I95010	I95010 Sequence 27	617	17.2	1.1	48	6	AR117273	AR117273 Sequence
C 545	17.4	1.1	50	6	A60808	A60808 Sequence 11	618	17.2	1.1	48	6	AR135812	AR135812 Sequence
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C 547	17.4	1.1	50	6	AX160148	AX160148 Sequence	620	17.2	1.1	48	6	AR135814	AR135814 Sequence
C 548	17.4	1.1	50	6	AX160470	AX160470 Sequence	621	17.2	1.1	48	6	AR135814	AR135814 Sequence
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C 551	17.4	1.1	50	6	AX161968	AX161968 Sequence	624	17.2	1.1	48	9	HUMTCVJ34	HUMTCVJ34
C 552	17.4	1.1	50	6	AX190233	AX190233 Sequence	625	17.2	1.1	48	9	AX021173	AX021173 Sequence
C 553	17.4	1.1	50	6	AX199626	AX199626 Sequence	626	17.2	1.1	48	9	AX060432	AX060432 Sequence
C 554	17.4	1.1	50	6	AX202435	AX202435 Sequence	627	17.2	1.1	49	6	AX278759	AX278759 Sequence
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C 558	17.4	1.1	50	6	I27200	I27200 Sequence 11	631	17.2	1.1	49	6	AR032500	AR032500 Sequence
C 559	17.4	1.1	50	10	MWU41938	MWU41938	632	17.2	1.1	50	6	AR032500	AR032500 Sequence
C 560	17.2	1.1	24	6	AR028416	AR028416 Sequence	633	17.2	1.1	50	6	AR209164	AR209164 Sequence
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C 562	17.2	1.1	24	6	AR161892	AR161892 Sequence	635	17.2	1.1	50	6	AR209164	AR209164 Sequence
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C 565	17.2	1.1	30	6	E04679	E04679 Synthetic n	638	17.2	1.1	50	6	AX165889	AX165889 Sequence
C 566	17.2	1.1	30	6	E04682	E04682 Synthetic n	639	17.2	1.1	50	6	AX165889	AX165889 Sequence
C 567	17.2	1.1	30	6	E30036	E30036 Human BMP-4	640	17.2	1.1	50	6	AX199624	AX199624 Sequence
C 568	17.2	1.1	32	6	AX009737	AX009737 Sequence	641	17.2	1.1	50	6	AX351174	AX351174 Sequence
C 569	17.2	1.1	32	6	AX011221	AX011221 Sequence	642	17.2	1.1	50	6	AX351174	AX351174 Sequence
C 570	17.2	1.1	34	6	AI4039	AI4039 Nucleotide	643	17.2	1.1	50	6	AX351174	AX351174 Sequence
C 571	17.2	1.1	34	6	AI4040	AI4040 Nucleotide	644	17.2	1.1	50	6	AX351174	AX351174 Sequence
C 572	17.2	1.1	34	6	AI1929	AI1929 Synthetic P	645	17.2	1.1	50	6	I29240	I29240 Sequence 11
C 573	17.2	1.1	35	6	AR159970	AR159970 Sequence	646	17.2	1.1	50	6	I29459	I29459 Sequence 33
C 574	17.2	1.1	35	6	AX028956	AX028956 Sequence	647	17.2	1.1	50	6	I91133	I91133 Sequence 33
C 575	17.2	1.1	35	6	E30638	E30638 Antibody an	648	17.2	1.1	50	6	FE220249	FE220249 Homo sapi
C 576	17.2	1.1	35	6	E31247	E31247 Device for	649	17.2	1.1	50	9	HSAD4654	HSAD4654 Homo sapi

C 650	17.2	1.1	50	9	HSTFE31A4	X84968 H.sapiens t	723	17	1.1	46	6	AR032563	AR032563 Sequence
C 651	17.2	1.1	50	9	HDMTCVJ70	L39537 Homo sapien	724	17	1.1	46	6	AR035242	AR035242 Sequence
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C 654	17	1.1	26	6	E16680	E16680 primer. 7/1	727	17	1.1	46	6	129303	129303 Sequence
C 655	17	1.1	29	6	I55135	I55135 Sequence 12	728	17	1.1	46	6	190977	190977 Sequence
C 656	17	1.1	30	6	AX328457	AX328457 Sequence	729	17	1.1	47	6	AX136052	AX136052 Sequence
C 657	17	1.1	32	6	A32995	A32995 Synthetic P	730	17	1.1	47	6	AX194988	AX194988 Sequence
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C 659	17	1.1	32	6	AX281125	AX281125 Sequence	732	17	1.1	47	6	AX195025	AX195025 Sequence
C 660	17	1.1	32	6	AX357174	AX357174 Sequence	733	17	1.1	47	6	AX278085	AX278085 Sequence
C 661	17	1.1	33	6	A14926	A14926 Oligonucleo	734	17	1.1	48	6	A38191	A38191 Sequence
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C 664	17	1.1	33	6	AR139631	AR139631 Sequence	737	17	1.1	48	6	MMCTRNA	X60688 M.musculus
C 665	17	1.1	33	6	AR154143	AR154143 Sequence	738	17	1.1	48	6	A38192	AX207722 Sequence
C 666	17	1.1	33	6	AR202528	AR202528 Sequence	739	17	1.1	49	6	AX279596	AX279596 Sequence
C 667	17	1.1	33	6	AX172816	AX172816 Sequence	740	17	1.1	49	6	AX279607	AX279607 Sequence
C 668	17	1.1	35	6	A25417	A25417 Oligonucleo	741	17	1.1	49	6	AX279718	AX279718 Sequence
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C 670	17	1.1	35	6	AR145497	AR145497 Sequence	743	17	1.1	49	6	AX391613	AX391613 Sequence
C 671	17	1.1	36	6	AX398700	AX398700 Sequence	744	17	1.1	49	6	I21262	I21262 Sequence
C 672	17	1.1	37	6	AR093706	AR093706 Sequence	745	17	1.1	49	6	AR032752	AR032752 Sequence
C 673	17	1.1	37	6	AR094473	AR094473 Sequence	746	17	1.1	49	6	AR032885	AR032885 Sequence
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C 693	17	1.1	39	6	AX351191	AX351191 Sequence	766	17	1.1	29	6	AR081910	AR081910 Sequence
C 694	17	1.1	39	6	AX351194	AX351194 Sequence	767	17	1.1	30	6	AR122637	AR122637 Sequence
C 695	17	1.1	40	6	AR053704	AR053704 Sequence	768	17	1.1	30	6	AR164243	AR164243 Sequence
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C 697	17	1.1	41	6	AR002620	AR002620 Sequence	770	17	1.1	30	6	E04646	E04646 Synthetic n
C 698	17	1.1	41	6	AR099670	AR099670 Sequence	771	17	1.1	30	6	E04677	E04677 Synthetic n
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C 700	17	1.1	41	6	AX004836	AX004836 Sequence	773	17	1.1	30	6	E04677	E04677 Synthetic n
C 701	17	1.1	41	6	AX128372	AX128372 Sequence	774	17	1.1	31	6	AX248452	AX248452 Sequence
C 702	17	1.1	41	6	AX190443	AX190443 Sequence	775	17	1.1	31	6	AX249447	AX249447 Sequence
C 703	17	1.1	42	6	AR063931	AR063931 Sequence	776	17	1.1	31	6	BD002867	BD002867 Gene comp
C 704	17	1.1	42	6	AX236436	AX236436 Sequence	777	17	1.1	31	6	A62639	A62639 Sequence
C 705	17	1.1	42	6	192764	192764 Sequence 30	778	17	1.1	33	6	AR024310	AR024310 Sequence
C 706	17	1.1	43	6	AR200692	AR200692 Sequence	779	17	1.1	33	6	AR024311	AR024311 Sequence
C 707	17	1.1	43	6	AX077423	AX077423 Sequence	780	17	1.1	33	6	AR045163	AR045163 Sequence
C 708	17	1.1	43	6	AX097541	AX097541 Sequence	781	17	1.1	33	6	AR045164	AR045164 Sequence
C 709	17	1.1	44	6	AX301891	AX301891 Sequence	782	17	1.1	33	6	AR144717	AR144717 Sequence
C 710	17	1.1	44	6	AX027828	AX027828 Sequence	783	17	1.1	33	6	AXA06738	AXA06738 Sequence
C 711	17	1.1	44	6	E11300	E11300 PCR primer	784	17	1.1	33	6	BD011387	BD011387 Chimeric
C 712	17	1.1	45	6	AR002619	AR002619 Sequence	785	17	1.1	33	6	BD011388	BD011388 Chimeric
C 713	17	1.1	45	6	AR099106	AR099106 Sequence	786	17	1.1	33	6	E43857	E43857 Chimeric an
C 714	17	1.1	45	6	AR099669	AR099669 Sequence	787	17	1.1	33	6	MMML103	X94887 M.musculus
C 715	17	1.1	45	6	AX068136	AX068136 Sequence	788	17	1.1	35	6	AX015342	AX015342 Sequence
C 716	17	1.1	45	6	AX068137	AX068137 Sequence	789	17	1.1	35	6	BD002993	BD002993 A method
C 717	17	1.1	45	6	AX068139	AX068139 Sequence	790	17	1.1	35	6	BD002995	BD002995 A method
C 718	17	1.1	45	6	AX201011	AX201011 Sequence	791	17	1.1	36	6	AR051239	AR051239 Sequence
C 719	17	1.1	45	6	AX267810	AX267810 Sequence	792	17	1.1	36	6	I28368	I28368 Sequence
C 720	17	1.1	46	6	A20001	A20001 SBO ID NO:	793	17	1.1	36	6	I28368	I28368 Sequence
C 721	17	1.1	46	6	A98768	A98768 Sequence 1	794	17	1.1	36	6	I34917	I34917 Sequence
C 722	17	1.1	46	6	A98769	A98769 Sequence 2	795	17	1.1	36	6	I34917	I34917 Sequence

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C 797	16.8	1.1	37	6	AR012354	AR012354 Sequence	C 870	16.8	1.1	47	6	AR202401	AR202401 Sequence
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805	16.8	1.1	39	6	AX167048	AX167048 Sequence	C 878	16.8	1.1	48	6	AX227091	AX227091 Sequence
806	16.8	1.1	39	6	AX167053	AX167053 Sequence	C 879	16.8	1.1	49	6	AX108255	AX108255 Sequence
807	16.8	1.1	40	6	AR079802	AR079802 Sequence	C 880	16.8	1.1	49	6	AX108357	AX108357 Sequence
808	16.8	1.1	40	6	AR081332	AR081332 Sequence	C 881	16.8	1.1	49	6	AX279747	AX279747 Sequence
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C 810	16.8	1.1	40	6	101689	101689 Sequence	C 883	16.8	1.1	49	6	AX328622	AX328622 Sequence
811	16.8	1.1	40	6	186249	186249 Sequence	C 884	16.8	1.1	49	6	AX441045	AX441045 Sequence
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813	16.8	1.1	41	6	AR067962	AR067962 Sequence	C 886	16.8	1.1	49	6	E14205	E14205 PCR primer
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815	16.8	1.1	41	6	AR097711	AR097711 Sequence	C 888	16.8	1.1	50	6	A10023	A10023 Nucleotide
C 816	16.8	1.1	41	6	AX201453	AX201453 Sequence	C 889	16.8	1.1	50	6	AR032763	AR032763 Sequence
817	16.8	1.1	41	6	BD011772	BD011772 RNP deriv	C 890	16.8	1.1	50	6	AR050768	AR050768 Sequence
C 818	16.8	1.1	41	6	BD011773	BD011773 RNP deriv	C 891	16.8	1.1	50	6	A51648	A51648 Sequence
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994 16.6 1.1 45 9 HSNCCP24A 249956 H.sapiens m
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## ALIGNMENTS

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DEFINITION Sequence 44 from Patent W00134654.
ACCESSION AX146582
VERSION AX146582.1 GI:14284975
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens

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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 50)
AUTHORS
Strauch, K.
Hedgehog fusion proteins and uses
Patent: WO 0134654-A 44 17-MAY-2001;
BIOGEN, INC. (US)
FEATURES
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LOCUS AX146613/c 50 bp DNA linear PAT 31-MAY-2001
DEFINITION Sequence 75 from Patent W00134654.
ACCESSION AX146613
VERSION AX146613.1 GI:14285006
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 50)
AUTHORS
Strauch, K.
Hedgehog fusion proteins and uses
Patent: WO 0134654-A 75 17-MAY-2001;
BIOGEN, INC. (US)
FEATURES
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/organism="Homo sapiens"
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LOCUS AX146614/c 50 bp DNA linear PAT 31-MAY-2001
DEFINITION Sequence 76 from Patent W00134654.
ACCESSION AX146614
VERSION AX146614.1 GI:14285007
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 50)
AUTHORS
Strauch, K.
Hedgehog fusion proteins and uses
Patent: WO 0134654-A 76 17-MAY-2001;
BIOGEN, INC. (US)
FEATURES
Source
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Location/Qualifiers

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Best Local Similarity 98.0%; Pred. No. 1.1e+04;  
Matches 49; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 50 CGGGCAGGGGTTTCGGAGAGAGGACCCCAAAAGCTGACCCCTTTA 1

RESULT 4  
AXI46616/c  
LOCUS AXI46616 50 bp DNA linear PAT 31-MAY-2001  
DEFINITION Sequence 78 from Patent WO0134654.  
ACCESSION AXI46616  
VERSION AXI46616.1 GI:14285009  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
AUTHORS 1 (bases 1 to 50)  
TITLE Strauch,K.  
JOURNAL Hedgehog fusion proteins and uses  
Patent: WO 0134654-A 78 17-MAY-2001;

FEATURES  
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LOCUS AXI46608 47 bp DNA linear PAT 31-MAY-2001  
DEFINITION Sequence 70 from Patent WO0134654.  
ACCESSION AXI46608  
VERSION AXI46608.1 GI:14285001  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
AUTHORS 1 (bases 1 to 47)  
TITLE Strauch,K.  
JOURNAL Hedgehog fusion proteins and uses  
Patent: WO 0134654-A 70 17-MAY-2001;

FEATURES  
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LOCUS AXI46609 47 bp DNA linear PAT 31-MAY-2001  
DEFINITION Sequence 71 from Patent WO0134654.  
ACCESSION AXI46609  
VERSION AXI46609.1 GI:14285002  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
AUTHORS 1 (bases 1 to 47)  
TITLE Strauch,K.  
JOURNAL Hedgehog fusion proteins and uses  
Patent: WO 0134654-A 71 17-MAY-2001;

FEATURES  
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Matches 45; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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DEFINITION Sequence 74 from Patent WO0134654.  
ACCESSION AXI46612  
VERSION AXI46612.1 GI:14285005  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
AUTHORS 1 (bases 1 to 45)  
TITLE Strauch,K.  
JOURNAL Hedgehog fusion proteins and uses  
Patent: WO 0134654-A 74 17-MAY-2001;

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Db 1 CCTTAGCCTACAGCAGTTATCCCAAGTGTGGCGGAGAGACC 45

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DEFINITION Sequence 77 from Patent WO0134654.

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 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 REFERENCE 1 (bases 1 to 50)  
 AUTHORS Strauch, K.  
 TITLE Hedgehog fusion proteins and uses  
 JOURNAL Patent: WO 0134654-A 77 17-MAY-2001;  
 BIOGEN, INC. (US)  
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 Db 50 CGCGCAGGGGTTTCGGCAGCAGCAGCAGCCCAAAAAGCTGACCTTTA 1  
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 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 REFERENCE 1 (bases 1 to 43)  
 AUTHORS Strauch, K.  
 TITLE Hedgehog fusion proteins and uses  
 JOURNAL Patent: WO 0134654-A 79 17-MAY-2001;  
 BIOGEN, INC. (US)  
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 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 REFERENCE 1 (bases 1 to 47)  
 AUTHORS Strauch, K.

TITLE Hedgehog fusion proteins and uses  
 JOURNAL Patent: WO 0134654-A 73 17-MAY-2001;  
 BIOGEN, INC. (US)  
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 LOCUS  
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 AX146610  
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 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 REFERENCE 1 (bases 1 to 47)  
 AUTHORS Strauch, K.  
 TITLE Hedgehog fusion proteins and uses  
 JOURNAL Patent: WO 0134654-A 72 17-MAY-2001;  
 BIOGEN, INC. (US)  
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 DEFINITION Sequence 16 from Patent W00075329.  
 AX057285  
 VERSION AX057285.1 GI:12310031  
 KEYWORDS  
 SOURCE synthetic construct.  
 ORGANISM synthetic construct.  
 REFERENCE 1 (bases 1 to 50)  
 AUTHORS Levine, A.J., Mitterer, A., Falkner, F.G., Scheiflinger, F. and  
 Dörner, F.  
 TITLE Targeted angiogenesis  
 JOURNAL Patent: WO 0075329-A 16 14-DEC-2000;  
 Edwards Lifesciences Corporation (US); Baxter Aktiengesellschaft  
 (AT)  
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Query Match	2.0%;	Score 31.4;	DB 6;	Length 50;
Best Local Similarity	85.4%;	Pred. No. 1.1e+06;		
Matches	35;	Conservative	0;	Mismatches 6;
				Indels

Accession	Gene	Length (bp)
U7	606GGGGGGGACAGCGCGCGCGCGGGAGCGCGGGGGGGCGCGGC	1381
U9	1341	
Db	7	606GGGGGGGACAGCGCGCGCGCGGGAGCGCGGGGGGGCGCGGC

RESULT 13  
HSA270316/c

DEFINITION	2 / dp Homo sapiens sonic hedgehog (Drosophila)	linear	PRI 26-JUL-2000
ACCESSION	AJ270316		
VERSION	AJ270316.1		
KEYWORDS	GI:9557893		
SOURCE	human,		

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.  
1 (bases 1 to 27)

**TITLE** Fetal and adult human CNS stem cells have similar molecular characteristics and developmental potential  
**JOURNAL** Brain Res. Mol. Brain Res. 78 (1-2), 192-195 (2000)  
**MEDLINE** 20351569

REFERENCE	
AUTHORS	
TITLE	
2	(bases 1 to 27)
	Palm, K.
	Direct Submission

COMMENT  
FEATURES  
Beverly Blvd., Los Angeles, CA 90048, US  
Related  
entry: NM\_000193.  
Location/Qualifiers

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/organism="Homo sapiens"
/db_xref="taxon:9606"
1. 27
misc_feature

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BASE COUNT      3 a      11 c      9 g      4 t
ORIGIN
      /note="PCR antisense primer for sonic hedgehog
      (Drosophila) homolog (SHH)"

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Query Match	1.7%	Score 27;	DB 9;	Length 27;
Best Local Similarity	100.0%	Pred. No.	4.5e+06;	
Matches 27; Conservative	0;	Mismatches	0;	Indels 0;
		Gaps	0;	

QY	755	TCGGCCACGGTGCACCTGGAGCAGGGC	781
db	27	TCGGCCACGGTGCACCTGGAGCAGGGC	1

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RESULT 14
AR178318
LOCUS
AR178318
50 bp
11

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DESCRIPTION 35 From patent US 6319672.  
 SEQUENCE ARI78318  
 ARI78318  
 ARI78318.1 GI:20219456  
 KEYWORDS

ORGANISM	REFERENCE
Unknown.	1 (bases 1 to 50)

TITLE	Purification of a triple helix formation with an immobilized oligonucleotide
JOURNAL	Patent: US 6319672-A 35 20-NOV-2001;
ABSTRACT	
KEYWORDS	
REFERENCES	
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source

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				Indels 0:
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Dy 19 GAGAGAGCCGACCGGGCGAGCCGGAGCGAGAAGGGAACGCCAAGAGAGA 68  
||| ||| | | ||| ||| ||| | | ||| |||  
Db 1 GA 50

RESULT 15	
AX323400	
LOCUS	
AX323400	
50 bp	
DNA	
linear	
PAT 07-TAN-2002	

ACCESSION	AX323400	GI:18094162
VERSION	AX323400.1	
KEYWORDS		

ORGANISM	synthetic construct
REFERENCE	artificial sequences.
AUTHORS	1
REFERENCE	Crowder T. Cohen-

JOURNAL  
TITLE  
Description of a triple helix formation with an immobilized  
oligonucleotide  
Patent: WO 0192511-A 35 06-DEC-2001;  
Aventis Pharma (FR)

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source
1. .50
/organism="synthetic construct"
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ORIGIN				

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Dd  
1 GACAGACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA 50

LOCUS	184406	33 bp	DNA	linear	PAT 04-APR-1998
SEQUENCE	7 from patent US 5695933.				

VERSION	184406.1	GI:3021926
KEYWORDS		
SOURCE	Unknown.	
ORGANISM		

Unclassified.  
1 (bases 1 to 33)  
REFERENCE  
AUTHORS  
Schalling, M., Hudson, T. J. and Housman, D. E.  
TITLE  
Direct detection of extended mutations

source	Patent: US 5695933-A 7 09-DEC-1997;
JOURNAL	Location/Qualifiers
TEATURS	1. .33
	/organism="unknown"

Query Match	1.68;	Score 25;	DB 6;	Length 33;
ORIGIN	11 C	22 g	0 C	

Matches	28	Conservative	0	Mismatches	5	Indels	0	Gaps	0
1351	CAGCGCGCGCGGACCGCGGCGCGCGCGG	1383							

[illegible]

RESULT 17  
LOCUS ARI99385 50 bp DNA linear PAT 20-APR-2002  
DEFINITION Sequence 6 from patent US 6355434.  
ACCESSION ARI99385  
VERSION ARI99385.1 GI:20249459  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 50)  
AUTHORS Drazan,J.M., In,K.-H., Asano,K., Beier,D. and Grobholz,J.  
TITLE 5-lipoxygenase gene polymorphisms and their use in classifying patients  
JOURNAL Patent: US 6355434-A 6 12-MAR-2002;  
FEATURES  
SOURCE Location/Qualifiers  
BASE COUNT 6 a 10 c 32 g 2 t  
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 24;  
Best Local Similarity 100.0%; Pred. No. 1.1e+07;  
Matches 24; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1348 GGACAGCGCGCGGACCGCGCGCGCGCGCGCGCAG 1386  
DB 6 GTACTGCGGGCGGCGCGCGCGCGCGCGCGCGCGCAG 44

RESULT 18  
LOCUS AR063105 24 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 43 from patent US 5844079.  
ACCESSION AR063105  
VERSION AR063105.1 GI:5990796  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 24)  
AUTHORS Ingham,P.W., McMahon,A.P. and Tabin,C.J.  
TITLE Vertebrate embryonic pattern-inducing proteins, and uses related thereto  
JOURNAL Patent: US 5844079-A 43 01-DEC-1998;  
FEATURES  
SOURCE Location/Qualifiers  
BASE COUNT 6 a 5 c 11 g 2 t  
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QY 524 ACCGAGGCTGGAGCAGAGATGCG 547  
DB 1 ACCGAGGCTGGAGCAGAGATGCG 24

RESULT 19  
LOCUS ARI22632 24 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 43 from patent US 6165747.  
ACCESSION ARI22632  
VERSION ARI22632.1 GI:14106949  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 24)

AUTHORS Ingham,P.W., McMahon,A.P., Tabin,C.J., Bumcrot,D.A. and Marti-Gorostiza,E.  
TITLE Nucleic acids encoding hedgehog proteins  
JOURNAL Patent: US 6165747-A 43 26-DEC-2000;  
FEATURES  
SOURCE Location/Qualifiers  
BASE COUNT 6 a 5 c 11 g 2 t  
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Query Match 1.5%; Score 24; DB 6; Length 24;  
Best Local Similarity 100.0%; Pred. No. 1.1e+07;  
Matches 24; Conservative 0; Mismatches 0; Indels 0;

QY 524 ACCGAGGCTGGAGCAGAGATGCG 547  
DB 1 ACCGAGGCTGGAGCAGAGATGCG 24

RESULT 20  
LOCUS ARI64260 24 bp DNA linear PAT 17-OCT-2001  
DEFINITION Sequence 43 from patent US 6271363.  
ACCESSION ARI64260  
VERSION ARI64260.1 GI:16235331  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 24)  
AUTHORS Ingham,P.W., McMahon,A.P. and Tabin,C.J.  
TITLE Nucleic acids encoding hedgehog proteins  
JOURNAL Patent: US 6271363-A 43 07-AUG-2001;  
FEATURES  
SOURCE Location/Qualifiers  
BASE COUNT 6 a 5 c 11 g 2 t  
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 24;  
Best Local Similarity 100.0%; Pred. No. 1.1e+07;  
Matches 24; Conservative 0; Mismatches 0; Indels 0;

QY 524 ACCGAGGCTGGAGCAGAGATGCG 547  
DB 1 ACCGAGGCTGGAGCAGAGATGCG 24

RESULT 21  
LOCUS AR208932 24 bp DNA linear PAT 20-JUN-2002  
DEFINITION Sequence 43 from patent US 6384192.  
ACCESSION AR208932  
VERSION AR208932.1 GI:21510216  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 24)  
AUTHORS Ingham,P.W., McMahon,A.P. and Tabin,C.J.  
TITLE Vertebrate embryonic pattern-inducing proteins  
JOURNAL Patent: US 6384192-A 43 07-MAY-2002;  
FEATURES  
SOURCE Location/Qualifiers  
BASE COUNT 6 a 5 c 11 g 2 t  
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 24;  
Best Local Similarity 100.0%; Pred. No. 1.1e+07;  
Matches 24; Conservative 0; Mismatches 0; Indels 0;

QY 524 ACCGAGGCTGGAGCAGAGATGCG 547



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Db      1  ACCGAGGCTGGACGAGATGCG 24
RESULT 22
LOCUS   120760
DEFINITION Sequence 13 from patent US 5516637.
ACCESSION 120760
VERSION 120760.1 GI:1601115
KEYWORDS
SOURCE  Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 45)
AUTHORS Huang,G.P., Rhode,P.R., Stinson,J.R. and Wong,H.C.
TITLE    Method involving display of protein binding pairs on the surface of
JOURNAL  Patent: US 5516637-A 13 14-MAY-1996;
FEATURES Location/Qualifiers
source   1..45
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BASE COUNT 2 a 9 c 25 g 9 t
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 45;
Best Local Similarity 75.0%; Pred. No. 8.9e+06;
Matches 30; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 1341 GCGCGGGGACCGCGCGGCGGCGGCGGCGG 1380
Db      2  GTGGCGGTGCGACGCGGCGGTGTTCGCGAGCGCGCG 41

RESULT 23
LOCUS   184401
DEFINITION Sequence 2 from patent US 5695933.
ACCESSION 184401
VERSION 184401.1 GI:3021921
KEYWORDS
SOURCE  Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 30)
AUTHORS Schalling,M., Hudson,T.J. and Houseman,D.E.
TITLE    Direct detection of expanded nucleotide repeats in the human genome
JOURNAL  Patent: US 5695933-A 2 09-DEC-1997;
FEATURES Location/Qualifiers
source   1..30
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BASE COUNT 0 a 20 c 10 g 0 t
ORIGIN

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Best Local Similarity 86.7%; Pred. No. 1.1e+07;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1354 CCGCGCGGCGGACCGCGGCGGCGGCGGCGG 1383
Db      30  CCGCGCGGCGGCGGCGGCGGCGGCGGCGG 1

RESULT 24
LOCUS   A01419
DEFINITION Malaria parasitic epitope (T-cell).
ACCESSION A01419
VERSION  A01419.1 GI:344347
KEYWORDS
SOURCE  synthetic construct.
ORGANISM synthetic construct
          artificial sequences.

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FEATURES Location/Qualifiers
source   1..31
          /organism="synthetic construct"
          /db_xref="taxon:32630"
BASE COUNT 0 a 20 c 10 g 0 t 1 others
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Best Local Similarity 86.7%; Pred. No. 1.1e+07;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1355 GCGCGGCGGACCGCGGCGGCGGCGGCGG 1384
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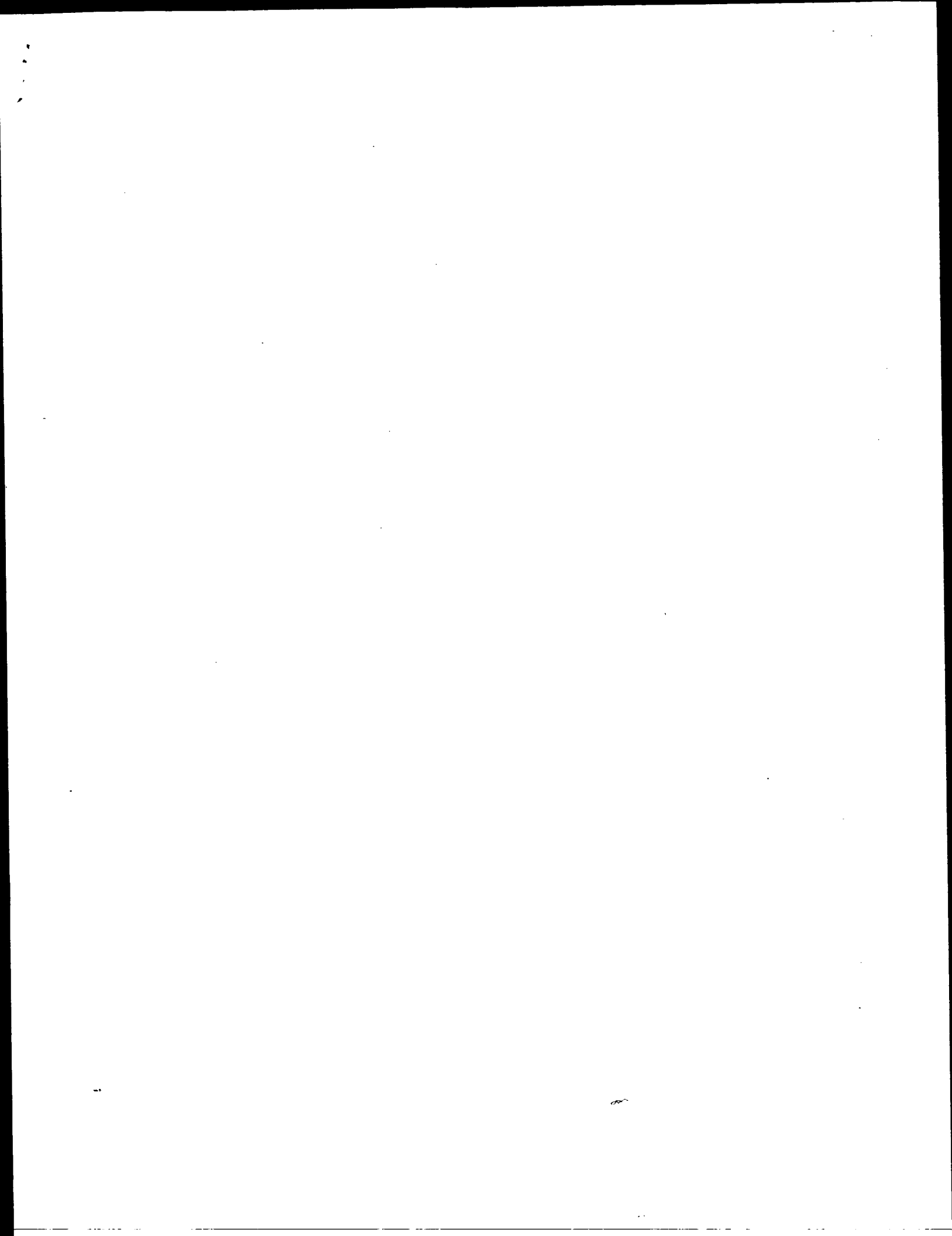
RESULT 25
LOCUS   A62993
DEFINITION Sequence 5 from Patent WO9720068.
ACCESSION A62993
VERSION  A62993.1 GI:3716865
KEYWORDS
SOURCE  unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 32)
AUTHORS Oerum,H. and Seeger,C.
TITLE    METHOD FOR GENERATING MULTIPLE DOUBLE STRANDED NUCLEIC ACIDS
JOURNAL  Patent: WO 9720068-A 5 05-JUN-1997;
FEATURES Location/Qualifiers
source   1..32
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BASE COUNT 0 a 30 c 2 g 0 t
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Best Local Similarity 81.2%; Pred. No. 1.5e+07;
Matches 26; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1543 CCGGCGGCGGAGGCGGCGGCGGAGGCGG 1574
Db      32  CCGGCGGCGGCGGCGGCGGCGGCGGCGG 1

Search completed: March 13, 2003, 23:14:50
Job time : 4408 secs

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GenCore version 5.1.4.p5.4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 20:47:37 ; Search time 395 Seconds  
(Without alignments)  
8985.188 Million cell updates/sec

Title: US-10-001-844-3

Perfect score: 1576

Sequence: 1 gcgagcgccgacgcgagggga.....gagggcgccgaggggggcc 1576

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 2166140

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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- 24: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
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C 2	48.4	3.1	50	22	AAD09078 Human oligonucleot
C 3	48.4	3.1	50	22	AAD09079 Human oligonucleot
C 4	45.2	2.9	50	22	AAD09081 Human oligonucleot
C 5	43.8	2.8	47	22	AAD09073 Human oligonucleot
C 6	43.8	2.8	47	22	AAD09074 Human oligonucleot
C 7	43.4	2.8	45	22	AAD09077 Human oligonucleot
C 8	43.2	2.7	48	22	AAF27031 Human sonic hedgeh
C 9	43.2	2.7	48	22	AAF27034 Human sonic hedgeh

C 10	42	2.7	50	22	AAD09080 Human oligonucleot
C 11	41.4	2.6	43	22	AAD09082 Human oligonucleot
C 12	40.6	2.6	47	22	AAD09076 Human oligonucleot
C 13	37.4	2.4	47	22	AAD09075 Human oligonucleot
C 14	37.2	2.4	42	22	AAF27032 Human sonic hedgeh
C 15	37.2	2.4	42	22	AAF27036 Human sonic hedgeh
C 16	36.4	2.3	38	22	AAF27039 Human sonic hedgeh
C 17	36	2.3	49	22	AAF27025 Human sonic hedgeh
C 18	35.8	2.3	39	22	AAF27038 Human sonic hedgeh
C 19	35.6	2.3	42	22	AAF27035 Human sonic hedgeh
C 20	33.8	2.1	37	22	AAF27037 Human sonic hedgeh
C 21	33.4	2.1	35	22	AAF27041 Human sonic hedgeh
C 22	32.2	2.0	37	22	AAF27040 Human sonic hedgeh
C 23	27	1.7	27	24	ABP03768 Human SHH gene PCR
C 24	26.8	1.7	45	13	AAO33571 Microsatellite seq
C 25	26.4	1.7	45	22	AAF60024 DNA linker. Synth
C 26	26	1.6	50	24	AA521107 (GA)25 DNA purific
C 27	25.6	1.6	50	22	AAAL29061 Human SNP oligonuc
C 28	25	1.6	33	15	AAO73441 Crohn's disease/ul
C 29	24.4	1.5	49	15	AAO79189 Plasmodium falcipa
C 30	24	1.5	24	16	AAO91654 Human sonic hedgeh
C 31	24	1.5	24	19	AAV18405 Human mutated soni
C 32	24	1.5	24	22	AAH76132 Human Shn DNA ampl
C 33	24	1.5	24	22	AAAD10171 Human sonic hedgeh
C 34	24	1.5	24	22	AAAC87097 PCR primer for CDN
C 35	24	1.5	24	24	ABN87569 Human sonic hedgeh
C 36	24	1.5	45	19	AAV54346 Modified pel B lea
C 37	24	1.5	45	20	AAV54429 Primer to amplify
C 38	24	1.5	48	13	AAO33615 Microsatellite seq
C 39	23.6	1.5	38	22	AAAD13353 Human manganese su
C 40	23.6	1.5	48	21	AAAC60679 Human repeat b10
C 41	23.4	1.5	25	19	AAV18406 Human mutated soni
C 42	23.4	1.5	33	19	AAV62418 Human sonic hedgeh
C 43	23.4	1.5	49	13	AAO33523 Sequence of micros
C 44	22.8	1.4	50	22	AAAL28997 Human SNP oligonuc
C 45	22.6	1.4	50	21	AAAC26760 Human secreted pro
C 46	22.4	1.4	32	14	AAK28344 Synthetic primer s
C 47	22.2	1.4	36	13	ABK10414 b6H N-terminus fra
C 48	22.2	1.4	44	13	AAO33577 Microsatellite seq
C 49	22.2	1.4	50	24	ABK47920 Vector multiclonin
C 50	22	1.4	24	21	ABR70367 Human SHH gene PCR
C 51	22	1.4	29	24	AAAC28861 Oligo linker for c
C 52	22	1.4	29	22	AAD09042 Human oligonucleot
C 53	22	1.4	29	22	AAK99702 Human sonic hedgeh
C 54	22	1.4	47	22	AAAF27024 Human sonic hedgeh
C 55	22	1.4	50	22	AAAF27026 Human sonic hedgeh
C 56	21.8	1.4	50	22	AAAL34112 Human SNP oligonuc
C 57	21.6	1.4	50	22	AAAL34422 Human SNP oligonuc
C 58	21.6	1.4	40	20	AAK08533 Oligonucleotide fr
C 59	21.4	1.4	50	24	ABK94536 Human BRCA1 gene,
C 60	21.4	1.4	31	24	ABK10413 Shh specific primer s
C 61	21.4	1.4	45	21	AAAF37204 Synthetic primer s
C 62	21.4	1.4	45	21	AAAF54306 Human PRO1347 hybr
C 63	21.4	1.4	45	18	AAAT80502 Hepatoma AS-30D Ty
C 64	21.4	1.4	49	18	AAAT6957 Human clone c94265
C 65	21.2	1.3	41	24	AAK99303 Human cancer suppr
C 66	21.2	1.3	41	24	AAK99304 Human BRCA1/BMLH1
C 67	21.2	1.3	45	24	ABK47921 Vector multiclonin
C 68	21.2	1.3	41	24	AAK99303 Human SNP oligonuc
C 69	21.2	1.3	41	24	AAK99304 Human BRCA1 gene,
C 70	21.2	1.3	49	24	ABK47921 Hepatitis C diagno
C 71	21.2	1.3	50	16	AAO89058 Probe p1674 for G1
C 72	21.2	1.3	50	22	AAAL30005 Hypercalcaemia age
C 73	21.2	1.3	50	22	AAAL34654 Human bcl-2 proto-
C 74	21	1.3	50	24	ABK94441 Human B-cell leuke
C 75	21	1.3	48	17	AAV03676 Test sequence from
C 76	21	1.3	48	13	AAO28517 Human SNP oligonuc
C 77	21	1.3	50	18	AAV64664 Human SNP oligonuc
C 78	21	1.3	50	18	AAV64086 Human SNP oligonuc
C 79	21	1.3	50	20	AAV17374 Human SNP oligonuc
C 80	21	1.3	50	22	AAAL29166 Human SNP oligonuc
C 81	21	1.3	50	22	AAAL31203 Human SNP oligonuc
C 82	21	1.3	50	22	AAAL31203 Human SNP oligonuc

c 83	21	1.3	50	22	AAH89771	Human coding sequ	c 156	19.8	1.3	40	13	AAO25025	Anti-sense oligonu
c 84	21	1.3	50	24	ABK82865	DNA binding molecu	c 157	19.8	1.3	47	21	AAZ67690	Human map-related
c 85	20.8	1.3	40	24	ABK89443	Human BRCA1/hMLH1	c 158	19.8	1.3	47	21	AAZ68205	Human map-related
c 86	20.8	1.3	43	20	AAV80298	DNA encoding pepit	c 159	19.8	1.3	47	23	AAH88364	CNS disorder-relat
c 87	20.8	1.3	46	19	AAV10422	CAT gene 5'-end an	c 160	19.8	1.3	48	24	ABQ75860	Plasmid prab sfil
c 88	20.8	1.3	46	19	AAV10422	CAT gene 5'-end an	c 161	19.8	1.3	48	24	AAV28898	Human SNP oligonu
c 89	20.8	1.3	49	23	ABAI0869	Tail adaptor oligo	c 162	19.8	1.3	50	22	AAAD19759	Human SNP oligonu
c 90	20.8	1.3	50	17	AAI28883	PCR primer for HTR	c 163	19.6	1.2	45	21	AAA47006	Human granuloocyte
c 91	20.8	1.3	50	17	AAI31522	Human SNP oligonu	c 164	19.6	1.2	46	21	AAZ98490	PCR primer for DNA
c 92	20.8	1.3	50	22	AAH89754	Human coding sequ	c 165	19.6	1.2	47	15	AAO68336	H. discus derived
c 93	20.6	1.3	38	22	AAH46872	B. napus turgor ge	c 166	19.6	1.2	48	22	AAAD13086	Oligo DEVD-2 for c
c 94	20.6	1.3	45	21	AAO60682	Triplet repeat blo	c 167	19.6	1.2	48	24	AAK97836	DNA encoding IEN-C
c 95	20.6	1.3	45	21	AAO60682	Synthetic linker D	c 168	19.4	1.2	50	18	AAK97382	Multiplex short-PC
c 96	20.6	1.3	48	17	AAO60682	DNA encoding GM-CS	c 169	19.4	1.2	36	20	AAK97322	Human lymphocyte
c 97	20.6	1.3	49	18	AAO60682	HepatoMA AS-30D Ty	c 170	19.4	1.2	37	23	AAH77140	DNA adapter 2 olig
c 98	20.6	1.3	50	22	AAI28264	Human SNP oligonu	c 171	19.4	1.2	39	12	AAO12191	Probe derived from
c 99	20.6	1.3	30	22	AAI74261	Human silent SNP c	c 172	19.4	1.2	39	12	AAO12191	Human sonic hedgeh
c 100	20.4	1.3	30	22	AAI74261	Immunostimulatory	c 173	19.4	1.2	39	12	AAO12191	Gamma heavy chain
c 101	20.4	1.3	30	24	ABK10417	Synthetic primer s	c 174	19.4	1.2	43	18	AAI78827	Primer O-529 used
c 102	20.4	1.3	31	24	ABK87619	MAbLTI-TOF-MS anal	c 175	19.4	1.2	43	18	AAI78827	Oligonucleotide us
c 103	20.4	1.3	31	24	ABK87619	Microsatellite seq	c 176	19.4	1.2	43	18	AAI78827	(Ser4Gly) 2 linker
c 104	20.4	1.3	34	13	AAO33761	Immunostimulatory	c 177	19.4	1.2	43	18	AAI78827	DNA encoding (Ser4
c 105	20.4	1.3	35	13	AAO33761	Immunostimulatory	c 178	19.4	1.2	45	16	AAO99068	Thermus terminator
c 106	20.4	1.3	35	24	ABK38795	Micro gene random	c 179	19.4	1.2	45	16	AAO99068	DNA encoding GM-CS
c 107	20.4	1.3	40	18	AAI78196	PCR primer used to	c 180	19.4	1.2	48	17	AAO69771	Human silent SNP c
c 108	20.4	1.3	41	16	AAO89389	COX-2 oligonucleot	c 181	19.4	1.2	48	17	AAO69771	Human SNP oligonu
c 109	20.4	1.3	41	16	AAO89389	T-domain PCR prime	c 182	19.4	1.2	49	22	AAI74185	Human SNP oligonu
c 110	20.4	1.3	47	16	AAO5461	Human antibody Kap	c 183	19.4	1.2	50	22	AAI74185	Non-target oligo h
c 111	20.4	1.3	49	16	AAI61251	Staphylococcus aur	c 184	19.4	1.2	50	22	AAI1599	Forward PCR primer
c 112	20.4	1.3	49	23	ABAI0851	Primer used in ste	c 185	19.2	1.2	52	21	AAI27226	Sonic hedgehog mRN
c 113	20.4	1.3	50	21	AAV79438	Human SNP oligonu	c 186	19.2	1.2	24	21	AAI30347	Simple sequence re
c 114	20.4	1.3	50	21	AAV79438	Human SNP oligonu	c 187	19.2	1.2	24	21	AAI30347	Receptor Shn cDNA
c 115	20.4	1.3	50	22	AAI27861	Urokinase plasmid	c 188	19.2	1.2	24	23	AAI67720	Neisseria meningit
c 116	20.4	1.3	50	22	AAI27861	HSV2 primer. Synt	c 189	19.2	1.2	36	9	AAH80523	Synthetic oligonu
c 117	20.2	1.3	36	24	ABK15487	Antisense oligonu	c 190	19.2	1.2	36	9	AAH80523	Sequence of mpc1 p
c 118	20.2	1.3	40	14	AAO50877	Human transmembran	c 191	19.2	1.2	36	24	AAO43268	Urokinase plasmid
c 119	20.2	1.3	42	20	AAK35839	CAT gene 5'-end an	c 192	19.2	1.2	40	21	AAK15479	Polynucleotide seq
c 120	20.2	1.3	46	15	AAO69335	Test sequence from	c 193	19.2	1.2	41	13	AAK3801	Microsatellite seq
c 121	20.2	1.3	46	15	AAO69335	DNA binding molecu	c 194	19.2	1.2	41	13	AAK3801	Oligonucleotide seq
c 122	20.2	1.3	46	15	AAO69335	PCR primer for C.	c 195	19.2	1.2	41	19	AAV37415	Slicing factor Prp
c 123	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 196	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 124	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 197	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 125	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 198	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 126	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 199	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 127	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 200	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 128	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 201	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 129	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 202	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 130	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 203	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 131	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 204	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 132	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 205	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 133	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 206	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 134	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 207	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 135	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 208	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 136	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 209	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 137	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 210	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 138	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 211	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 139	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 212	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 140	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 213	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 141	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 214	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 142	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 215	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 143	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 216	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 144	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 217	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 145	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 218	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 146	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 219	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 147	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 220	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 148	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 221	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 149	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 222	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 150	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 223	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 151	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 224	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 152	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 225	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 153	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 226	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 154	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 227	19.2	1.2	41	24	ABU40950	Human ribosomal pr
c 155	20.2	1.3	46	15	AAO69335	Human SNP oligonu	c 228	19.2	1.2	41	24	ABU40950	Human ribosomal pr

C 229	19	1.2	30	20	AA55311	Soluble sc-TCR fus	C 302	18.8	1.2	50	21	AA53010	Aspergillus niger
C 230	19	1.2	30	20	AA55313	Soluble sc-TCR fus	C 303	18.8	1.2	50	22	AA128815	Human SNP oligonuc
C 231	19	1.2	30	21	AA28860	Oligo linker for c	C 304	18.8	1.2	50	22	AA129447	Human SNP oligonuc
C 232	19	1.2	30	22	AA09041	Human oligonucleot	C 305	18.8	1.2	50	22	AA129797	Human SNP oligonuc
C 233	19	1.2	30	24	AAK9701	Human sonic hedgeh	C 306	18.8	1.2	50	22	AA129801	Human SNP oligonuc
C 234	19	1.2	35	23	ABA95454	Thermus thermophil	C 307	18.8	1.2	50	22	AA133727	Human SNP oligonuc
C 235	19	1.2	36	24	AA228440	Primer 345, for am	C 308	18.8	1.2	50	22	AA134059	Human SNP oligonuc
C 236	19	1.2	36	24	AA228440	Primer 345, for am	C 309	18.8	1.2	50	22	AA134589	Human SNP oligonuc
C 237	19	1.2	38	17	AA13180	Human insulin codi	C 310	18.8	1.2	50	24	AB072370	Human SNP oligonuc
C 238	19	1.2	39	22	AA125074	Nucleotide sequenc	C 311	18.6	1.2	25	15	AA055856	PCR primer MHV-Bac
C 239	19	1.2	39	22	AA125074	Nucleotide sequenc	C 312	18.6	1.2	25	15	AA055856	Fragile X probe.
C 240	19	1.2	39	22	AA125074	Nucleotide sequenc	C 313	18.6	1.2	25	16	AA055856	Probe for fragile
C 241	19	1.2	40	24	ABK37899	Promoter replaceme	C 314	18.6	1.2	25	20	AA055856	Synthetic PGK prom
C 242	19	1.2	41	16	AA094545	Sense oligonucleot	C 315	18.6	1.2	28	21	AA243855	Human IgG4 heavy c
C 243	19	1.2	41	16	AA094545	Sense oligonucleot	C 316	18.6	1.2	34	24	AB156849	Reverse PCR primer
C 244	19	1.2	42	24	AB154013	Human antibody ONS	C 317	18.6	1.2	36	22	AA123429	HIV ENV gene PCR p
C 245	19	1.2	43	24	AB154013	Human antibody ONS	C 318	18.6	1.2	38	14	AA047082	Streptomyces livid
C 246	19	1.2	44	17	AA133024	Plasmid pVAC-1stc	C 319	18.6	1.2	38	14	AA047082	Monoclonal antib
C 247	19	1.2	44	17	AA133024	Plasmid pVAC-1stc	C 320	18.6	1.2	40	22	AA128348	Downstream sequenc
C 248	19	1.2	44	20	AA177428	Antibody H chain V	C 321	18.6	1.2	42	13	AA033587	Primer #2 used in
C 249	19	1.2	44	20	AA177428	Antibody H chain V	C 322	18.6	1.2	43	22	AA125888	Linker used to mak
C 250	19	1.2	45	16	AA104813	Clone #5 fragment	C 323	18.6	1.2	44	17	AA123429	Antibody H chain V
C 251	19	1.2	45	16	AA104813	Clone #5 fragment	C 324	18.6	1.2	44	17	AA123429	Paraquat binding a
C 252	19	1.2	45	20	AA154225	PCR primer VHAF5	C 325	18.6	1.2	44	20	AA178848	PCR primer VH4CF5
C 253	19	1.2	45	20	AA154225	PCR primer VHAF5	C 326	18.6	1.2	44	20	AA178848	PCR primer VH4CF5
C 254	19	1.2	46	15	AA068290	B. steatotherophil	C 327	18.6	1.2	44	21	AA096961	Probe used to iso
C 255	19	1.2	47	20	AA068290	B. steatotherophil	C 328	18.6	1.2	45	20	AA12474	Human PRO943 hybr
C 256	19	1.2	48	22	AA069070	Mutant preprotricin	C 329	18.6	1.2	45	21	AA081274	Human PRO332 (UN2
C 257	19	1.2	50	18	AA173770	Diabody MAK195 pri	C 330	18.6	1.2	45	21	AA081274	Probe specific for
C 258	19	1.2	50	18	AA173770	Diabody MAK195 pri	C 331	18.6	1.2	45	21	AA081274	Rat brain factor-1
C 259	19	1.2	50	22	AA128935	Human oligo 14 to	C 332	18.6	1.2	45	22	AA128935	Human PRO43 hybr
C 260	19	1.2	50	22	AA128935	Human oligo 14 to	C 333	18.6	1.2	45	22	AA128935	Human PRO332 (UN2
C 261	19	1.2	50	22	AA130665	Human SNP oligonuc	C 334	18.6	1.2	45	22	AA130665	Probe specific for
C 262	19	1.2	50	22	AA130665	Human SNP oligonuc	C 335	18.6	1.2	45	22	AA130665	Rat brain factor-1
C 263	19	1.2	50	22	AA130665	Human SNP oligonuc	C 336	18.6	1.2	45	22	AA130665	Human PRO43 hybr
C 264	19	1.2	50	22	AA130665	Human SNP oligonuc	C 337	18.6	1.2	45	22	AA130665	Human PRO43 hybr
C 265	18.8	1.2	31	22	AA130628	Human SNP oligonuc	C 338	18.6	1.2	45	22	AA130665	Human PRO43 hybr
C 266	18.8	1.2	32	22	AA130628	Human SNP oligonuc	C 339	18.6	1.2	45	22	AA130665	Human PRO43 hybr
C 267	18.8	1.2	34	11	AA005011	Human single nucle	C 340	18.6	1.2	46	15	AA080661	Human PRO43 hybr
C 268	18.8	1.2	34	11	AA005011	Human single nucle	C 341	18.6	1.2	46	15	AA080661	Human PRO43 hybr
C 269	18.8	1.2	34	14	AA036325	NGF5ant, targette	C 342	18.6	1.2	47	13	AA030484	Human PRO43 hybr
C 270	18.8	1.2	38	21	AA134768	NGF5ant, targette	C 343	18.6	1.2	47	13	AA030484	Human PRO43 hybr
C 271	18.8	1.2	38	21	AA134768	NGF5ant, targette	C 344	18.6	1.2	47	13	AA030484	Human PRO43 hybr
C 272	18.8	1.2	39	22	AA125074	Crossover junction	C 345	18.6	1.2	48	22	AA125074	Human PRO43 hybr
C 273	18.8	1.2	39	22	AA125074	Crossover junction	C 346	18.6	1.2	48	22	AA125074	Human PRO43 hybr
C 274	18.8	1.2	40	21	AA125074	Probe #2 relating	C 347	18.6	1.2	49	23	AA125074	Human PRO43 hybr
C 275	18.8	1.2	40	21	AA125074	Probe #2 relating	C 348	18.6	1.2	49	23	AA125074	Human PRO43 hybr
C 276	18.8	1.2	40	22	AA125074	Probe #2 relating	C 349	18.6	1.2	49	23	AA125074	Human PRO43 hybr
C 277	18.8	1.2	41	24	AA125074	Probe #2 relating	C 350	18.6	1.2	50	18	AA125074	Human PRO43 hybr
C 278	18.8	1.2	41	24	AA125074	Probe #2 relating	C 351	18.6	1.2	50	18	AA125074	Human PRO43 hybr
C 279	18.8	1.2	42	18	AA125074	Probe #2 relating	C 352	18.6	1.2	50	18	AA125074	Human PRO43 hybr
C 280	18.8	1.2	42	21	AA125074	Probe #2 relating	C 353	18.6	1.2	50	20	AA125074	Human PRO43 hybr
C 281	18.8	1.2	42	21	AA125074	Probe #2 relating	C 354	18.6	1.2	50	20	AA125074	Human PRO43 hybr
C 282	18.8	1.2	43	16	AA125074	Probe #2 relating	C 355	18.6	1.2	50	20	AA125074	Human PRO43 hybr
C 283	18.8	1.2	43	16	AA125074	Probe #2 relating	C 356	18.6	1.2	50	20	AA125074	Human PRO43 hybr
C 284	18.8	1.2	43	16	AA125074	Probe #2 relating	C 357	18.6	1.2	50	21	AA125074	Human PRO43 hybr
C 285	18.8	1.2	43	19	AA125074	Probe #2 relating	C 358	18.6	1.2	50	21	AA125074	Human PRO43 hybr
C 286	18.8	1.2	44	16	AA125074	Probe #2 relating	C 359	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 287	18.8	1.2	44	16	AA125074	Probe #2 relating	C 360	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 288	18.8	1.2	45	12	AA125074	Probe #2 relating	C 361	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 289	18.8	1.2	45	12	AA125074	Probe #2 relating	C 362	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 290	18.8	1.2	45	22	AA125074	Probe #2 relating	C 363	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 291	18.8	1.2	47	20	AA125074	Probe #2 relating	C 364	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 292	18.8	1.2	47	20	AA125074	Probe #2 relating	C 365	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 293	18.8	1.2	48	15	AA125074	Probe #2 relating	C 366	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 294	18.8	1.2	48	15	AA125074	Probe #2 relating	C 367	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 295	18.8	1.2	48	18	AA125074	Probe #2 relating	C 368	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 296	18.8	1.2	48	21	AA125074	Probe #2 relating	C 369	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 297	18.8	1.2	48	23	AA125074	Probe #2 relating	C 370	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 298	18.8	1.2	49	23	AA125074	Probe #2 relating	C 371	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 299	18.8	1.2	49	23	AA125074	Probe #2 relating	C 372	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 300	18.8	1.2	49	23	AA125074	Probe #2 relating	C 373	18.6	1.2	50	22	AA125074	Human PRO43 hybr
C 301	18.8	1.2	50	20	AA125074	Probe #2 relating	C 374	18.6	1.2	50	22	AA125074	Human PRO43 hybr

375	18.4	1.2	36	24	AAI39105	Antibody screening
376	18.4	1.2	36	24	AAI39118	Antibody screening
377	18.4	1.2	39	21	AAZ94974	Primer J533(B) us
378	18.4	1.2	40	13	AAO25030	Oligonucleotide sp
379	18.4	1.2	40	21	AAO25029	Oligonucleotide sp
380	18.4	1.2	40	21	AAZ96048	Polynucleotide seq
381	18.4	1.2	41	19	AAV51224	Melze polymorphic
382	18.4	1.2	41	19	AAV11503	A. niger transpos
383	18.4	1.2	44	21	AAZ34476	E. coli formate de
384	18.4	1.2	44	21	AAZ34576	E. coli fdh seleno
385	18.4	1.2	45	17	AAZ42435	GD domain region f
386	18.4	1.2	45	20	AAZ80091	Human PRO347 probe
387	18.4	1.2	45	21	AAZ80091	Probe used to scre
388	18.4	1.2	45	21	AAZ80091	Probe for cDNA enc
389	18.4	1.2	45	21	AAZ80091	PCR primer DP47ban
390	18.4	1.2	45	21	AAZ80091	Human scfv gene VH
391	18.4	1.2	45	24	ABK11184	DNA encoding Bipla
392	18.4	1.2	45	24	ABK11184	Human protective D
393	18.4	1.2	47	19	AAV49716	Plasmid pSLH1rkl o
394	18.4	1.2	47	19	AAV49717	Plasmid pSLH1rkl o
395	18.4	1.2	47	19	AAV49717	Molnuc acetylchol
396	18.4	1.2	47	22	AAH26376	C7 coding region p
397	18.4	1.2	47	24	AAI72452	Bombay mori pBMHC
398	18.4	1.2	48	16	AAO80730	Codon optimised si
399	18.4	1.2	48	19	AAV18209	Human SNP oligonuc
400	18.4	1.2	48	22	AAI29496	Nodavirus RNAl PCR
401	18.4	1.2	48	22	AAI33891	Oligo DEVA-2 for c
402	18.4	1.2	49	15	AAO69655	Human adenosine de
403	18.4	1.2	49	15	AAO69655	Human adenosine de
404	18.4	1.2	49	18	AAI64117	Test sequence from
405	18.4	1.2	49	20	AAI7405	HIV-1 zinc binding
406	18.4	1.2	49	22	AAI33008	Tail adaptor oligo
407	18.4	1.2	49	23	ABAI10640	Tail adaptor oligo
408	18.4	1.2	49	24	ABK10863	DNA binding molecu
409	18.4	1.2	50	15	AAO69731	Human ubiquitin-1i
410	18.4	1.2	50	15	AAO69731	Human erythropiet
411	18.4	1.2	50	18	AAI76096	Human histidine de
412	18.4	1.2	50	18	AAI64193	Human ubiquitin-1i
413	18.4	1.2	50	18	AAI63838	Human erythropiet
414	18.4	1.2	50	20	AAI53907	Histidine decarbox
415	18.4	1.2	50	20	AAI17481	Test sequence from
416	18.4	1.2	50	20	AAI17126	Human histidine de
417	18.4	1.2	50	21	AAI19472	Low adenosine anti
418	18.4	1.2	50	21	AAI33350	Human SNP oligonuc
419	18.4	1.2	50	22	AAI27894	Human SNP oligonuc
420	18.4	1.2	50	22	AAI28817	Human SNP oligonuc
421	18.4	1.2	50	22	AAI28896	Human SNP oligonuc
422	18.4	1.2	50	22	AAI29890	Human SNP oligonuc
423	18.4	1.2	50	22	AAI30113	Human SNP oligonuc
424	18.4	1.2	50	22	AAI30376	Human SNP oligonuc
425	18.4	1.2	50	22	AAI33675	Human SNP oligonuc
426	18.4	1.2	50	22	AAI34180	Human SNP oligonuc
427	18.4	1.2	50	22	AAI34566	Human SNP oligonuc
428	18.4	1.2	50	22	AAI34566	Human silent SNP c
429	18.4	1.2	50	22	AAI78855	Human SNP invovlan
430	18.4	1.2	50	23	ABLO1021	DNA binding molecu
431	18.4	1.2	50	24	ABK82617	DNA binding molecu
432	18.4	1.2	50	24	ABK82972	Ets related gene (
433	18.4	1.2	50	24	ABK13347	Human transcripito
434	18.4	1.2	50	24	ABK13347	Central region seq
435	18.2	1.2	25	17	AAV15200	Hedgehog protein d
436	18.2	1.2	25	19	AAV59458	Probe used to dete
437	18.2	1.2	31	22	AAH78572	Human single nucle
438	18.2	1.2	31	22	AAI31038	B-cell mRNA ribozym
439	18.2	1.2	32	14	AAO52007	Human Desert hedge
440	18.2	1.2	34	19	AAV62416	Oligonucleotide CB
441	18.2	1.2	35	19	AAV36067	TRMP-1/fibronectin
442	18.2	1.2	39	17	AAI35018	Primer used in MHC
443	18.2	1.2	39	18	AAI786348	IL-4 2' NH2 RNA lig
444	18.2	1.2	39	18	AAI787251	IL-4 2' NH2 RNA lig
445	18.2	1.2	39	18	AAI787251	HIV env INS mutage
446	18.2	1.2	40	14	AAO50264	Polynucleotide seq
447	18.2	1.2	40	21	AAZ95854	Polynucleotide seq
448	18.2	1.2	40	21	AAZ96142	Polynucleotide seq
449	18.2	1.2	40	22	AAH63432	PCR primer for amp
450	18.2	1.2	41	15	AAO62423	Vector pVACI const
451	18.2	1.2	41	24	ABU56705	Probe #1 for human
452	18.2	1.2	42	16	AAO99066	(Gly4Ser)2 linker
453	18.2	1.2	42	21	AAI12864	DNA encoding Gly4
454	18.2	1.2	42	21	AAO5766	Human growth hormo
455	18.2	1.2	42	22	AAI74252	DNA analysis metho
456	18.2	1.2	43	24	ABU99298	Synthetic Renilla
457	18.2	1.2	43	20	AAH82033	Mouse heavy chain
458	18.2	1.2	45	20	AAO5364	Mouse heavy chain
459	18.2	1.2	46	15	AAO69434	Human heat shock p
460	18.2	1.2	46	18	AAI63896	Human hsp70B gene
461	18.2	1.2	46	20	AAI71814	Test sequence from
462	18.2	1.2	46	24	ABK82675	DNA binding molecu
463	18.2	1.2	47	19	AAV44007	Human Mab #117/10C
464	18.2	1.2	47	21	AAI67614	Human map-related
465	18.2	1.2	47	21	AAI69138	Human map-related
466	18.2	1.2	47	21	AAI69138	Primer #62 from pr
467	18.2	1.2	47	23	ABAO9881	Human Chk1 ribozym
468	18.2	1.2	48	22	AAI7435	eryal gene KSI seg
469	18.2	1.2	48	22	AAI7435	Urokinase plasmino
470	18.2	1.2	48	24	ABK15480	Tail adaptor oligo
471	18.2	1.2	49	23	ABAI0701	Tail adaptor oligo
472	18.2	1.2	49	23	ABAI0718	Tail adaptor oligo
473	18.2	1.2	49	23	ABAI0770	Human non-histone
474	18.2	1.2	50	15	AAO69581	Human cytomagalovi
475	18.2	1.2	50	18	AAI73788	Multiplex short-PC
476	18.2	1.2	50	18	AAI73788	Multiplex short-PC
477	18.2	1.2	50	18	AAI73788	Multiplex short-PC
478	18.2	1.2	50	18	AAI73788	Multiplex short-PC
479	18.2	1.2	50	18	AAI73788	Multiplex short-PC
480	18.2	1.2	50	20	AAH89200	Human non-histone
481	18.2	1.2	50	20	AAH89201	M. intracellulare
482	18.2	1.2	50	20	AAH89201	M. stium 16S RNA
483	18.2	1.2	50	20	AAH89201	HCV NS4A-NS3 compl
484	18.2	1.2	50	21	AAI77403	Synthetic plasmid
485	18.2	1.2	50	22	AAI29583	Test sequence from
486	18.2	1.2	50	22	AAI30020	Human SNP oligonuc
487	18.2	1.2	50	22	AAI31893	Human SNP oligonuc
488	18.2	1.2	50	22	AAI32412	Human SNP oligonuc
489	18.2	1.2	50	22	AAI34106	Human SNP oligonuc
490	18.2	1.2	50	22	AAI34326	Human SNP oligonuc
491	18.2	1.2	50	22	AAI34565	Human silent SNP c
492	18.2	1.2	50	22	AAI78241	Human DNA containi
493	18.2	1.2	50	22	AAH79786	DNA binding molecu
494	18.2	1.2	50	24	ABK82822	PCR primer Shh-D s
495	18.2	1.2	50	24	AAH45474	Canine IL-2 recept
496	18.2	1.2	50	24	AAH45474	C/EBP-beta antisen
497	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
498	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
499	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
500	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
501	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
502	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
503	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
504	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
505	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
506	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
507	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
508	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
509	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
510	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
511	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
512	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
513	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
514	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
515	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
516	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
517	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
518	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
519	18.2	1.2	50	24	AAH45474	Human C/EBP polyu
520	18.2	1.2	50	24	AAH45474	Human C/EBP polyu

521	18	1.1	34	21	AAA34484	Human adenosine re	594	18	1.1	50	22	AAL1846	Human SNP oligonuc
522	18	1.1	35	20	AA89879	Monoclonal antiod	595	18	1.1	50	22	AAL33721	Human SNP oligonuc
523	18	1.1	35	20	AA85036	C/EBP-beta antisen	596	18	1.1	50	22	AAL34403	Human SNP oligonuc
524	18	1.1	35	20	AA85061	C/EBP-beta antisen	597	18	1.1	50	22	AAL76329	Human silent SNP c
525	18	1.1	35	20	AA89232	PCR primer used to	598	18	1.1	50	22	AAL76329	Human silent SNP c
526	18	1.1	35	21	AA82065	Human C/EBP polyu	599	18	1.1	50	22	AAL76811	Human binding molecu
527	18	1.1	35	21	AA82063	Degenerative oligo	600	18	1.1	50	24	ABK82865	DNA binding molecu
528	18	1.1	35	21	AA82063	Human C/EBP polyu	601	18	1.1	50	24	ABK82865	DNA binding molecu
529	18	1.1	35	21	AA82063	Human adenosine re	602	18	1.1	21	21	AAA95383	Rat Shh coding seq
530	18	1.1	35	21	AA82063	Human adenosine re	603	18	1.1	21	21	AAA95383	PCR primer for mou
531	18	1.1	35	21	AA82063	Human adenosine re	604	18	1.1	21	21	AAA95383	GC-rich DNA probe.
532	18	1.1	35	21	AA82063	Oligonucleotide 91	605	18	1.1	30	18	ABU52929	Oligonucleotide 11
533	18	1.1	36	15	AA82063	C/EBP-beta antisen	606	18	1.1	30	18	ABU52929	Human single nucle
534	18	1.1	36	15	AA82063	Human C/EBP polyu	607	18	1.1	31	22	AA129637	Human single nucle
535	18	1.1	36	21	AA82063	Human adenosine re	608	18	1.1	31	22	AA130471	Human single nucle
536	18	1.1	36	21	AA82063	Permutate linker e	609	18	1.1	31	22	AA130471	Human single nucle
537	18	1.1	36	21	AA82063	PCR primer PVX fla	610	18	1.1	32	18	AA16190	Human single nucle
538	18	1.1	38	12	AA82063	Probe p1672 for G1	611	18	1.1	32	20	AA16190	Primer for 2,5'-o
539	18	1.1	39	19	AA82063	Tissue plasminogen	612	18	1.1	33	19	AA126185	Guamerin gene ampl
540	18	1.1	40	22	AA82063	Part of Psat gene	613	18	1.1	34	21	AA12122	BHV-1 gp gene PCR
541	18	1.1	41	15	AA82063	Vector pVAC1 const	614	18	1.1	36	21	AA135662	T. brucei trypanos
542	18	1.1	41	15	AA82063	Maize polymorphic	615	18	1.1	38	23	ABU58030	Permutate linker e
543	18	1.1	41	19	AA82063	Maize polymorphic	616	18	1.1	39	22	AA845570	Human inverted CCA
544	18	1.1	41	19	AA82063	Maize polymorphic	617	18	1.1	39	22	AA845570	B cell lymphoma C
545	18	1.1	42	14	AA82063	Human cathepsin 29	618	18	1.1	39	22	AA82063	PCR primer used to
546	18	1.1	42	14	AA82063	Multiple cloning s	619	18	1.1	39	23	AA15508	CT linker library
547	18	1.1	42	16	AA82063	Oligonucleotide c1	620	18	1.1	40	19	AA15508	Human inverted CCA
548	18	1.1	42	24	AA82063	Oligonucleotide 33	621	18	1.1	40	22	AA82063	Primer for adeno-a
549	18	1.1	42	24	AA82063	PCR primer EGRE7 f	622	18	1.1	41	19	AA82063	Template Nuc T16 f
550	18	1.1	43	19	AA82063	Oligonucleotide us	623	18	1.1	41	24	ABU41373	Maize polymorphic
551	18	1.1	43	20	AA82063	Amplification prim	624	18	1.1	41	24	ABU41373	Human transcriptio
552	18	1.1	43	20	AA82063	Error prone PCR pr	625	18	1.1	42	19	AA82063	Human phosphatase
553	18	1.1	43	20	AA82063	Human immunodefici	626	18	1.1	42	19	AA82063	Primer for lucifer
554	18	1.1	44	24	AA82063	p53 mutation detec	627	18	1.1	43	15	AA82063	HCV Ab heavy chai
555	18	1.1	44	24	AA82063	Mouse heavy chain	628	18	1.1	44	20	AA82063	PCR primer VH2af5
556	18	1.1	45	22	AA82063	Xenopus insulator	629	18	1.1	44	21	AA82063	PCR primer VH2af5
557	18	1.1	45	18	AA82063	Flt-1 gene probe A	630	18	1.1	45	15	AA82063	DNA encoding sigma
558	18	1.1	45	18	AA82063	Interleukin-4 2'F	631	18	1.1	45	15	AA82063	Human steroid 5-a1
559	18	1.1	46	20	AA82063	Primer 7. Synthet	632	18	1.1	45	18	AA82063	Human steroid 5-a1
560	18	1.1	47	23	AA82063	CNS disordered-relat	633	18	1.1	45	20	AA82063	Test sequence from
561	18	1.1	47	23	AA82063	Human rearranged k	634	18	1.1	45	21	AA82063	Oligonucleotide MS
562	18	1.1	48	16	AA82063	Bombay mori pMHC	635	18	1.1	45	22	AA82063	B43 scfv cassette
563	18	1.1	48	16	AA82063	Human rearranged k	636	18	1.1	45	22	AA82063	DNA binding molecu
564	18	1.1	48	20	AA82063	Test sequence from	637	18	1.1	46	12	AA82063	Proinsulin-tendam
565	18	1.1	48	21	AA82063	Mutagenic primer 8	638	18	1.1	46	12	AA82063	Proinsulin-tendam
566	18	1.1	48	21	AA82063	Ecotin site direct	639	18	1.1	46	14	AA82063	p. multocida 16S r
567	18	1.1	48	22	AA82063	Nodavirus RNAI PCR	640	18	1.1	46	20	AA82063	PCR primer, SEQ ID
568	18	1.1	48	22	AA82063	Anti-A33 antigen a	641	18	1.1	46	22	AA82063	Human map-related
569	18	1.1	48	22	AA82063	Rabbit anti A33 an	642	18	1.1	47	18	AA82063	Human CITEDX (HCIT
570	18	1.1	48	24	AA82063	DNA binding molecu	643	18	1.1	47	18	AA82063	Europolym-labelled
571	18	1.1	49	13	AA82063	Microsatellite seq	644	18	1.1	47	22	AA82063	Fruit fly cuticle
572	18	1.1	49	23	AA82063	Tail adaptor oligo	645	18	1.1	48	12	AA82063	HBV target sequenc
573	18	1.1	49	23	AA82063	Regulatable, catal	646	18	1.1	48	13	AA82063	Oligo DEVA-1 for c
574	18	1.1	49	24	AA82063	Human bcl-2 proto-	647	18	1.1	48	16	AA82063	Multiple short-PC
575	18	1.1	50	15	AA82063	Human Ige receptor	648	18	1.1	48	16	AA82063	Multiple short-PC
576	18	1.1	50	15	AA82063	Human Ige receptor	649	18	1.1	48	16	AA82063	Herpes simplex vir
577	18	1.1	50	18	AA82063	Repeat sequence fr	650	18	1.1	49	18	AA82063	Multiple short-PC
578	18	1.1	50	18	AA82063	Oligonucleotide pr	651	18	1.1	50	15	AA82063	Multiple short-PC
579	18	1.1	50	18	AA82063	Human epidermal gr	652	18	1.1	50	18	AA82063	Multiple short-PC
580	18	1.1	50	18	AA82063	Human B-cell leuke	653	18	1.1	50	18	AA82063	Multiple short-PC
581	18	1.1	50	18	AA82063	Human Ige receptor	654	18	1.1	50	18	AA82063	Multiple short-PC
582	18	1.1	50	18	AA82063	Test sequence from	655	18	1.1	50	18	AA82063	Multiple short-PC
583	18	1.1	50	20	AA82063	Test sequence from	656	18	1.1	50	18	AA82063	Multiple short-PC
584	18	1.1	50	20	AA82063	Human Ige receptor	657	18	1.1	50	20	AA82063	HSV-2 18k (start s
585	18	1.1	50	20	AA82063	Oligomer I used to	658	18	1.1	50	20	AA82063	Test sequence from
586	18	1.1	50	21	AA82063	Low adenosine anti	659	18	1.1	50	22	AA129277	Human SNP oligonuc
587	18	1.1	50	21	AA82063	Human SNP oligonuc	660	18	1.1	50	22	AA129277	Human SNP oligonuc
588	18	1.1	50	22	AA82063	Human SNP oligonuc	661	18	1.1	50	22	AA129277	Human SNP oligonuc
589	18	1.1	50	22	AA82063	Human SNP oligonuc	662	18	1.1	50	22	AA129277	Human SNP oligonuc
590	18	1.1	50	22	AA82063	Human SNP oligonuc	663	18	1.1	50	22	AA129277	Human SNP oligonuc
591	18	1.1	50	22	AA82063	Human SNP oligonuc	664	18	1.1	50	22	AA129277	Human SNP oligonuc
592	18	1.1	50	22	AA82063	Human SNP oligonuc	665	18	1.1	50	22	AA129277	Human SNP oligonuc
593	18	1.1	50	22	AA82063	Human SNP oligonuc	666	18	1.1	50	22	AA129277	Escherichia coli L

667	17.8	1.1	50	22	AA173843	Human silent SNP c	740	17.6	1.1	48	24	ABK86064	Protein C mutant K
668	17.8	1.1	50	24	ABK83028	DNA binding molecu	741	17.6	1.1	48	24	ABK86065	Protein C mutant K
669	17.8	1.1	50	24	AA518936	Human CLASP-1 intr	742	17.6	1.1	48	24	AA805017	Hepatom A5-30D T
670	17.6	1.1	25	24	ABT03636	Human Hey-2 gene p	743	17.6	1.1	49	18	AA805017	Human amyloid A4 p
671	17.6	1.1	27	18	AA838815	Marmoset intracell	744	17.6	1.1	49	18	AA838815	Test sequence from
672	17.6	1.1	28	21	AA243856	Human IG4 heavy c	745	17.6	1.1	49	20	AA838815	Adaptor oligonucle
673	17.6	1.1	28	21	AA243856	Human inflammatory	746	17.6	1.1	49	23	ABK09759	Primer 49 from pr
674	17.6	1.1	30	24	ABK27945	Lipolytic enzyme p	747	17.6	1.1	49	23	ABK09759	Tail adaptor oligo
675	17.6	1.1	31	18	AA435522	Anti-Lymphoma anti	748	17.6	1.1	49	24	ABK82753	DNA binding molecu
676	17.6	1.1	31	18	AA435522	Alfalfa aldose red	749	17.6	1.1	49	24	ABK82753	BMP-3 5' end probe
677	17.6	1.1	31	21	AA435522	Human genomic DNA	750	17.6	1.1	50	12	AA015886	Herpes simplex vir
678	17.6	1.1	32	13	AA033551	Microsatellite seq	751	17.6	1.1	50	12	AA015886	Simian virus 40 T
679	17.6	1.1	32	20	AA033551	Sequencing reagent	752	17.6	1.1	50	15	AA069841	Synthetic halpin o
680	17.6	1.1	32	21	AA033551	Primer RFL 5' EcoR	753	17.6	1.1	50	18	AA069841	Human antibody kap
681	17.6	1.1	33	13	AA033551	Gene-specific prim	754	17.6	1.1	50	18	AA069841	HSV-1 b'g'a/TIF/VS
682	17.6	1.1	34	16	AA078856	Gene-specific prim	755	17.6	1.1	50	18	AA069841	SV40 T/c early p2
683	17.6	1.1	35	18	AA080845	Oligonucleotide of	756	17.6	1.1	50	19	AA069841	Human J chain targ
684	17.6	1.1	36	14	AA052042	Breast cancer spec	757	17.6	1.1	50	19	AA069841	Human J chain targ
685	17.6	1.1	36	18	AA052042	RET proto-oncogene	758	17.6	1.1	50	20	AA069841	Primer for eya1 g
686	17.6	1.1	36	22	AA052042	Human collagen gen	759	17.6	1.1	50	20	AA069841	Nucleotide used to
687	17.6	1.1	40	13	AA025025	Anti-sense oligonu	760	17.6	1.1	50	20	AA069841	Test sequence from
688	17.6	1.1	40	13	AA025025	Primer for amplifi	761	17.6	1.1	50	21	AA069841	Test sequence from
689	17.6	1.1	40	20	AA025025	Polynucleotide seq	762	17.6	1.1	50	21	AA069841	3' PCR primer for
690	17.6	1.1	40	21	AA025025	Polynucleotide seq	763	17.6	1.1	50	21	AA069841	Nucleotide sequenc
691	17.6	1.1	41	15	AA064933	Human motilin gene	764	17.6	1.1	50	22	AA069841	Human SNP oligonuc
692	17.6	1.1	41	15	AA064933	Human motilin gene	765	17.6	1.1	50	22	AA069841	Human SNP oligonuc
693	17.6	1.1	41	18	AA063955	Maize polymorphic	766	17.6	1.1	50	22	AA069841	Human SNP oligonuc
694	17.6	1.1	41	19	AA063955	Maize polymorphic	767	17.6	1.1	50	22	AA069841	Human SNP oligonuc
695	17.6	1.1	41	19	AA063955	Maize polymorphic	768	17.6	1.1	50	22	AA069841	Human SNP oligonuc
696	17.6	1.1	41	19	AA063955	Maize polymorphic	769	17.6	1.1	50	22	AA069841	Human SNP oligonuc
697	17.6	1.1	41	19	AA063955	Maize polymorphic	770	17.6	1.1	50	22	AA069841	Human SNP oligonuc
698	17.6	1.1	41	19	AA063955	Maize polymorphic	771	17.6	1.1	50	22	AA069841	Human SNP oligonuc
699	17.6	1.1	41	20	AA063955	Maize polymorphic	772	17.6	1.1	50	22	AA069841	Human SNP oligonuc
700	17.6	1.1	41	22	AA063955	Maize polymorphic	773	17.6	1.1	50	22	AA069841	Human SNP oligonuc
701	17.6	1.1	41	22	AA063955	Maize polymorphic	774	17.6	1.1	50	22	AA069841	Human SNP oligonuc
702	17.6	1.1	41	24	AA063955	Maize polymorphic	775	17.6	1.1	50	22	AA069841	Human SNP oligonuc
703	17.6	1.1	42	24	AA063955	Maize polymorphic	776	17.6	1.1	50	22	AA069841	Human SNP oligonuc
704	17.6	1.1	42	21	AA063955	Maize polymorphic	777	17.6	1.1	50	22	AA069841	Human SNP oligonuc
705	17.6	1.1	42	21	AA063955	Maize polymorphic	778	17.6	1.1	50	22	AA069841	Human SNP oligonuc
706	17.6	1.1	42	22	AA063955	Maize polymorphic	779	17.6	1.1	50	22	AA069841	Human SNP oligonuc
707	17.6	1.1	42	24	AA063955	Maize polymorphic	780	17.6	1.1	50	22	AA069841	Human SNP oligonuc
708	17.6	1.1	43	20	AA063955	Maize polymorphic	781	17.6	1.1	50	22	AA069841	Human SNP oligonuc
709	17.6	1.1	43	22	AA063955	Maize polymorphic	782	17.6	1.1	50	22	AA069841	Human SNP oligonuc
710	17.6	1.1	44	14	AA052042	Human growth hormo	783	17.6	1.1	50	22	AA069841	Human SNP oligonuc
711	17.6	1.1	44	14	AA052042	Human growth hormo	784	17.6	1.1	50	22	AA069841	Human SNP oligonuc
712	17.6	1.1	44	15	AA052042	Human growth hormo	785	17.6	1.1	50	22	AA069841	Human SNP oligonuc
713	17.6	1.1	44	15	AA052042	Human growth hormo	786	17.6	1.1	50	22	AA069841	Human SNP oligonuc
714	17.6	1.1	44	15	AA052042	Human growth hormo	787	17.6	1.1	50	22	AA069841	Human SNP oligonuc
715	17.6	1.1	44	15	AA052042	Human growth hormo	788	17.6	1.1	50	22	AA069841	Human SNP oligonuc
716	17.6	1.1	44	15	AA052042	Human growth hormo	789	17.6	1.1	50	22	AA069841	Human SNP oligonuc
717	17.6	1.1	44	15	AA052042	Human growth hormo	790	17.6	1.1	50	22	AA069841	Human SNP oligonuc
718	17.6	1.1	44	15	AA052042	Human growth hormo	791	17.6	1.1	50	22	AA069841	Human SNP oligonuc
719	17.6	1.1	44	15	AA052042	Human growth hormo	792	17.6	1.1	50	22	AA069841	Human SNP oligonuc
720	17.6	1.1	44	15	AA052042	Human growth hormo	793	17.6	1.1	50	22	AA069841	Human SNP oligonuc
721	17.6	1.1	44	15	AA052042	Human growth hormo	794	17.6	1.1	50	22	AA069841	Human SNP oligonuc
722	17.6	1.1	44	15	AA052042	Human growth hormo	795	17.6	1.1	50	22	AA069841	Human SNP oligonuc
723	17.6	1.1	44	15	AA052042	Human growth hormo	796	17.6	1.1	50	22	AA069841	Human SNP oligonuc
724	17.6	1.1	44	15	AA052042	Human growth hormo	797	17.6	1.1	50	22	AA069841	Human SNP oligonuc
725	17.6	1.1	44	15	AA052042	Human growth hormo	798	17.6	1.1	50	22	AA069841	Human SNP oligonuc
726	17.6	1.1	44	15	AA052042	Human growth hormo	799	17.6	1.1	50	22	AA069841	Human SNP oligonuc
727	17.6	1.1	44	15	AA052042	Human growth hormo	800	17.6	1.1	50	22	AA069841	Human SNP oligonuc
728	17.6	1.1	44	15	AA052042	Human growth hormo	801	17.6	1.1	50	22	AA069841	Human SNP oligonuc
729	17.6	1.1	44	15	AA052042	Human growth hormo	802	17.6	1.1	50	22	AA069841	Human SNP oligonuc
730	17.6	1.1	44	15	AA052042	Human growth hormo	803	17.6	1.1	50	22	AA069841	Human SNP oligonuc
731	17.6	1.1	44	15	AA052042	Human growth hormo	804	17.6	1.1	50	22	AA069841	Human SNP oligonuc
732	17.6	1.1	44	15	AA052042	Human growth hormo	805	17.6	1.1	50	22	AA069841	Human SNP oligonuc
733	17.6	1.1	44	15	AA052042	Human growth hormo	806	17.6	1.1	50	22	AA069841	Human SNP oligonuc
734	17.6	1.1	44	15	AA052042	Human growth hormo	807	17.6	1.1	50	22	AA069841	Human SNP oligonuc
735	17.6	1.1	44	15	AA052042	Human growth hormo	808	17.6	1.1	50	22	AA069841	Human SNP oligonuc
736	17.6	1.1	44	15	AA052042	Human growth hormo	809	17.6	1.1	50	22	AA069841	Human SNP oligonuc
737	17.6	1.1	44	15	AA052042	Human growth hormo	810	17.6	1.1	50	22	AA069841	Human SNP oligonuc
738	17.6	1.1	44	15	AA052042	Human growth hormo	811	17.6	1.1	50	22	AA069841	Human SNP oligonuc
739	17.6	1.1	44	15	AA052042	Human growth hormo	812	17.6	1.1	50	22	AA069841	Human SNP oligonuc



C 813	17.4	1.1	36	21	AAA34456	Human adenosine re
C 814	17.4	1.1	37	20	AAAX5008	C/EBP-beta antisen
C 815	17.4	1.1	37	21	AAAF20577	Human C/EBP polyu
C 816	17.4	1.1	37	21	AAA34455	Human adenosine re
C 817	17.4	1.1	37	24	AAAI19086	Human chorionic ge
C 818	17.4	1.1	38	17	AAAT15807	Humanised L1.2 m
C 819	17.4	1.1	38	18	AAAT88132	Primer for variabl
C 820	17.4	1.1	38	20	AAAX55007	C/EBP-beta antisen
C 821	17.4	1.1	38	21	AAAF20576	Human C/EBP polyu
C 822	17.4	1.1	38	21	AAAF20575	Human adenosine re
C 823	17.4	1.1	38	24	ABL31961	ForkI/PspI containi
C 824	17.4	1.1	38	24	ABL31961	C/EBP-beta antisen
C 825	17.4	1.1	39	20	AAAX55006	Human C/EBP polyu
C 826	17.4	1.1	39	21	AAAF20575	Human C/EBP polyu
C 827	17.4	1.1	39	21	AAA34453	Human C/EBP polyu
C 828	17.4	1.1	39	21	AAZ60139	Human adenosine re
C 829	17.4	1.1	39	24	ABL91539	PCR primer C2 used
C 830	17.4	1.1	40	21	AAAX55005	Chlamydia pneumoni
C 831	17.4	1.1	40	21	AAAF20574	C/EBP-beta antisen
C 832	17.4	1.1	40	21	AAA09439	Human C/EBP polyu
C 833	17.4	1.1	40	21	AAA34452	M. alpina delta-6
C 834	17.4	1.1	41	20	AAAX55004	Human adenosine re
C 835	17.4	1.1	41	20	AAAX22756	C/EBP-beta antisen
C 836	17.4	1.1	41	21	AAAF20573	Human ESRP1 DNA PC
C 837	17.4	1.1	41	21	AAA34451	Human C/EBP polyu
C 838	17.4	1.1	41	24	ABL53417	Human adenosine re
C 839	17.4	1.1	42	20	AAAX57794	Reverse primer for
C 840	17.4	1.1	42	20	AAAX55003	C/EBP-beta antisen
C 841	17.4	1.1	42	21	AAAF20572	Human C/EBP polyu
C 842	17.4	1.1	42	21	AAA34450	Human adenosine re
C 843	17.4	1.1	42	22	AAAC86365	Linker used to mak
C 844	17.4	1.1	43	9	AAAN82099	Oligonucleotide pr
C 845	17.4	1.1	43	10	AAAN94347	Probe for 2.5-dike
C 846	17.4	1.1	43	20	AAAX55001	C/EBP-beta antisen
C 847	17.4	1.1	43	20	AAAF20571	Human C/EBP polyu
C 848	17.4	1.1	43	21	AAA34449	Human adenosine re
C 849	17.4	1.1	44	15	AAAC94402	Human GSP pi gene
C 850	17.4	1.1	44	18	AAAT63864	Human GSP pi gene
C 851	17.4	1.1	44	20	AAAX59209	Human antihody VH
C 852	17.4	1.1	44	20	AAAX55001	C/EBP-beta antisen
C 853	17.4	1.1	44	20	AAAX17152	Test sequence from
C 854	17.4	1.1	44	21	AAAF20570	Human C/EBP polyu
C 855	17.4	1.1	44	21	AAAH34448	Human adenosine re
C 856	17.4	1.1	44	22	AAAH19349	Human platelet-der
C 857	17.4	1.1	44	24	ABR82663	DNA binding molecu
C 858	17.4	1.1	45	12	AAQ12281	Probe to minisatel
C 859	17.4	1.1	45	12	AAQ12282	Human insulin-like
C 860	17.4	1.1	45	15	AAQ69449	Bombyx mori sex sp
C 861	17.4	1.1	45	15	AAQ69449	Human IGF binding
C 862	17.4	1.1	45	18	AAQ80726	Codon optimised s1
C 863	17.4	1.1	45	19	AAAT63911	C/EBP-beta antisen
C 864	17.4	1.1	45	20	AAAX55000	Test sequence from
C 865	17.4	1.1	45	20	AAAX54966	Human C/EBP polyu
C 866	17.4	1.1	45	20	AAAX17199	Human C/EBP polyu
C 867	17.4	1.1	45	21	AAAF20569	Human C/EBP polyu
C 868	17.4	1.1	45	21	AAAF20565	Human adenosine re
C 869	17.4	1.1	45	21	AAA34443	Human adenosine re
C 870	17.4	1.1	45	21	AAA34447	Streptavidin displ
C 871	17.4	1.1	45	21	AAA05786	DNA binding molecu
C 872	17.4	1.1	45	24	ABR82690	Rat galactin recept
C 873	17.4	1.1	45	24	AAAD3	



Example 1; Page 62; 178pp; English.

Sequence 50 BP; 6 A; 17 C; 13 G; 14 T; 0 other;

QY	228	CGGCGAGGGGGTTCGGGAACAGGAGGCACCCCAAAAAGCTGACCCCTTTA	277
Db	50	CGGCGAGGGGGTTCGGGAACAGGAGGCACCCCAAAAAGCTGACCCCTTTA	1

AC	AAD09079;
XX	
DT	04-SEP-2001 (first entry)
XX	

*Homo sapiens.*

17-MAY-2001

05-NOV-1999; 99US-0164025.

Strauch K;

PS Example 1; Page 62; 178pp; English  
vxy

5Q Sequence 50 BP; 6 A; 19 C; 13 G; 12 T; 0 other;

QY 228 CGGGCAGGGGGTTCGGGAGAGGAGCCACCCAAAAACGTGACCCCTTTA 277  
|||||  
Db 50 CGGGCAGGGGGTTCGGGAGAGGAGCCACCCAAAAAGCTGACCCCTTTA 1  
|||||

AC AAD09081  
XX

Human oligonucleotide HOG-807 used to construct pMMC26

05 Homo sapiens  
XX

PD 17-MAY-2001  
XX

PR 05-NOV-1999; 99US-0164025  
XY

PI Strauch K;  
vY

WPI; 2001-329075/34.

Novel isolated hedgehog fusion polypeptide useful for treating

PT neurological conditions such as Alzheimer's disease, Parkinson's  
 PT disease, Huntington's chorea, amyotrophic lateral sclerosis, and  
 PT multiple sclerosis -  
 PS Example 1; Page 62; 178pp; English.  
 XX  
 CC The present invention relates to hedgehog fusion proteins. Hedgehog  
 CC proteins are a family of extracellular signalling proteins that regulate  
 CC various aspects of embryonic development both in vertebrates and in  
 CC invertebrates. Hedgehog fusion protein is useful for the prophylaxis or  
 CC treatment of any condition or disease state for which a hedgehog or  
 CC patched protein constituent is efficacious and in the diagnosis of  
 CC constituents or conditions of disease states in non-physiological systems.  
 CC Hedgehog fusion protein is useful for treating neurological conditions  
 CC due to injury, aging of nervous system, including Alzheimer's disease,  
 CC chronic neurodegenerative diseases of the nervous system, including  
 CC Parkinson's disease, Huntington's chorea, amyotrophic lateral sclerosis  
 CC and chronic immunological diseases of nervous system including multiple  
 CC sclerosis and malignant gliomas, medulloblastomas, neuroectodermal  
 CC tumours and to specifically target medical therapies against cancers and  
 CC tumours which express the receptor for the protein. The present sequence  
 CC is human oligonucleotide HOG-807 used to construct pMNC26 plasmid which  
 CC is used in the invention.  
 XX  
 SQ Sequence 50 BP; 6 A; 19 C; 15 G; 10 T; 0 other;  
 XX  
 Query Match 2.9%; Score 45.2; DB 22; Length 50;  
 Best Local Similarity 94.0%; Pred. No. 47;  
 Matches 47; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 228 CGGGCAGGGGTTGCGGAGAGGAGGACCCCAAAAGCTGACCTTTA 277  
 DB 50 CGGGCAGGGGTTGCGGAGAGGAGGACCCCAAGCTGACCTTTA 1  
 XX  
 RESULT 5  
 AAD09073  
 ID AAD09073 standard; DNA: 47 BP.  
 AC AAD09073;  
 XX  
 DT 04-SEP-2001 (first entry)  
 XX  
 DE Human oligonucleotide HOG-789 used to construct pMNC22.  
 XX  
 KW Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;  
 KW cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;  
 KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;  
 KW nervous system aging; neurodegenerative disease; immunological disease;  
 KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;  
 KW extracellular signalling protein; HOG-789; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200134654-A1.  
 XX  
 PD 17-MAY-2001.  
 XX  
 PF 02-NOV-2000; 2000WO-US30405.  
 XX  
 PR 05-NOV-1999; 99US-0164025.  
 XX  
 PA (BIOJ ) BIOGEN INC.  
 XX  
 PI Strauch K;  
 XX  
 DR WPI; 2001-329075/34.  
 XX  
 PT Novel isolated hedgehog fusion polypeptide useful for treating  
 PT neurological conditions such as Alzheimer's disease, Parkinson's  
 PT disease, Huntington's chorea, amyotrophic lateral sclerosis, and  
 PT multiple sclerosis -

XX  
 PS Example 1; Page 61; 178pp; English.  
 XX  
 CC The present invention relates to hedgehog fusion proteins. Hedgehog  
 CC proteins are a family of extracellular signalling proteins that regulate  
 CC various aspects of embryonic development both in vertebrates and in  
 CC invertebrates. Hedgehog fusion protein is useful for the prophylaxis or  
 CC treatment of any condition or disease state for which a hedgehog or  
 CC patched protein constituent is efficacious and in the diagnosis of  
 CC constituents or conditions of disease states in non-physiological systems.  
 CC Hedgehog fusion protein is useful for treating neurological conditions  
 CC due to injury, aging of nervous system, including Alzheimer's disease,  
 CC chronic neurodegenerative diseases of the nervous system, including  
 CC Parkinson's disease, Huntington's chorea, amyotrophic lateral sclerosis  
 CC and chronic immunological diseases of nervous system including multiple  
 CC sclerosis and malignant gliomas, medulloblastomas, neuroectodermal  
 CC tumours and to specifically target medical therapies against cancers and  
 CC tumours which express the receptor for the protein. The present sequence  
 CC is human oligonucleotide HOG-789 used to construct pMNC22 plasmid which  
 CC is used in the invention.  
 XX  
 SQ Sequence 47 BP; 13 A; 13 C; 18 G; 3 T; 0 other;  
 XX  
 Query Match 2.8%; Score 43.8; DB 22; Length 47;  
 Best Local Similarity 95.7%; Pred. No. 81;  
 Matches 45; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 225 GACCGGCGAGGGGTTGCGGAGAGGAGGACCCCAAAAGCTGACC 271  
 DB 1 GCCCGGCGAGGGGTTGCGGAGAGGAGGACCCCAAAAGCTGACC 47  
 XX  
 RESULT 6  
 AAD09074  
 ID AAD09074 standard; DNA: 47 BP.  
 AC AAD09074;  
 XX  
 DT 04-SEP-2001 (first entry)  
 XX  
 DE Human oligonucleotide HOG-791 used to construct pMNC23.  
 XX  
 KW Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;  
 KW cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;  
 KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;  
 KW nervous system aging; neurodegenerative disease; immunological disease;  
 KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;  
 KW extracellular signalling protein; HOG-791; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200134654-A1.  
 XX  
 PD 17-MAY-2001.  
 XX  
 PF 02-NOV-2000; 2000WO-US30405.  
 XX  
 PR 05-NOV-1999; 99US-0164025.  
 XX  
 PA (BIOJ ) BIOGEN INC.  
 XX  
 PI Strauch K;  
 XX  
 DR WPI; 2001-329075/34.  
 XX  
 PT Novel isolated hedgehog fusion polypeptide useful for treating  
 PT neurological conditions such as Alzheimer's disease, Parkinson's  
 PT disease, Huntington's chorea, amyotrophic lateral sclerosis, and  
 PT multiple sclerosis -  
 XX  
 PS Example 1; Page 61-62; 178pp; English.  
 XX

50 Sequence 47 BP; 11 A; 13 C; 20 G; 3 T; 0 other;

QY 225 GACCGGGCAGGGGTTCCGGGAAGAGGAGGCACCCCAAAAAGCTGACC 271

## RESULT 7

AC AAD09077;  
XX

04-SEP-2001 (first entry)

Human oligonucleotide HOG-799 used to construct pMMC22

human; neurogen protein; neurotrophic; neuroprotective; anticonvulsant  
cytostatic; Alzheimer's disease; Parkinson's disease; Huntington's disease

nervous system aging; neurodegenerative diseases; multiple sclerosis

KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer; extracellular signalling protein; HOC-799; cc

aa  
os Homo sapiens.

PN WO200134654-A1.

PD 17-MAY-2001.

PF 02-NOV-2000; 2000WO-US30405

PR 05-NOV-1999; 99US-0164025

PA (BIOJ ) BIOGEN INC.

PI Strauch K;

WPI; 2001-329075/34

Novel isolated hedgehog fusion polypeptide useful for treating

disease, Huntington's chorea, amyotrophic lateral sclerosis, and

XX  
XX

[illegible]

proteins are a family of extracellular signalling proteins that regulate

various aspects of embryonic development both in vertebrates and in

Query Match	2.8%;	Score 43.4;	DB 22;	Length 45
Best Local Similarity	97.8%;	Pred NO	95%	

1 CCTTTAGCCTACAAGCAGTTTATCCCCAAGGTGGCCGAGAGACC 45

DD 1 CCTTAGCCCTACAGCAGTTATCCCCCAAGGTGGCCGAGAAACC 45

AAE27031/c  
ID AAE27031 standard; DNA: 48 BP

XX  
XX

XX 2001 (LIST ENTRY)

human sonic hedgehog (shh) mutagenic primer, SEQ ID NO:35

bioavailability; formulation; neurological disorder; KW

neurodegenerative disorder; Parkinson's disease; Huntington's disease

KW malignant glioma; medulloblastoma; neuroectodermal tumour; neurotrauma; stroke; neurological injury; stroke; multiple sclerosis;

XX

Synthetic.

PN WO2000073337-A1

PD 07-DEC-2000

26-MAY-2000; 2000WO-US14741.

PR	01-JUN-1999;	99US-0137011.
PR	13-JUN-1999	99US-0137011.

[illegible]

XX  
XX  
DT

XX  
DB  
WBT : 3003 - 040037 405

Modified by

disease and Huntington's chorea, comprises a polymer containing a

N-terminal and lysine residues -

Example 6; page 77; 157pp; English  
PS  
XX

The invention relates to novel polymer conjugates of hedgehog proteins which have increased bioavailability. The invention also relates to methods for the preparation of such conjugates.

conjugated to a non-naturally-occurring polymer comprising a poly-

CC glycol group, with the proviso that the polymer is not conjugated to the  
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
 CC a hedgehog fusion protein. The invention also relates to methods of  
 CC defining and mapping functionally important regions of a protein by  
 CC modifying accessible amino acid side chains, and determining the effect  
 CC the position and/or type of modification have on the activity of the  
 CC protein. The hedgehog polymer conjugates may be used in the management of  
 CC various medical conditions including various neurological disorders, they  
 CC inflammatory and autoimmune diseases, and cancers. In particular, they  
 CC may be used to prevent preventing or ameliorate neurodegenerative  
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's  
 CC disease); age-associated neurological diseases; neurological injury and  
 CC trauma; immunological diseases of the nervous system (e.g., multiple  
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and  
 CC neuroectodermal tumours. The modifications made to the hedgehog protein  
 CC may result in increased half-life, altered tissue distribution (such as  
 CC an improved ability to stay in the vasculature for longer periods of  
 CC time), increased stability in solution, protection from proteolytic  
 CC degradation, or reduced immunogenicity. In particular, the ability to  
 CC remain in the vasculature for prolonged periods may allow a hedgehog  
 CC protein in the invention to cross the blood-brain barrier, and an  
 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a  
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention.

CC Sequence 48 BP; 10 A; 13 C; 15 G; 10 T; 0 other;

CC Query Match 2.7%; Score 43.2; DB 22; Length 48;

CC Best Local Similarity 93.8%; Pred. No. 1e+02; Mismatches 3; Indels 0; Gaps 0;

CC Matches 45; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

CC 278 GCCTACAGACGATTATCCCAATGTGCGCCGAGAACCCCTAGCGGCC 325

CC 48 GCCTACAGACGATTATCCCTGTGTGCTGAGAACCCCTAGCGGCC 1

CC Db

CC RESULT 9

CC AAF27034/C

CC AAF27034 standard; DNA; 48 BP.

CC XX

CC AAF27034;

CC XX

CC 30-MAR-2001 (first entry)

CC XX

CC Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:38.

CC XX

CC Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;

CC XX

CC bioavailability; formulation; neurological disorder;

CC XX

CC inflammatory disorder; autoimmune disorder; cancer;

CC XX

CC neurodegenerative disorder; Parkinson's disease; Huntington's disease;

CC XX

CC Alzheimer's disease; neurological injury; stroke; multiple sclerosis;

CC XX

CC malignant glioma; medulloblastoma; neuroectodermal tumour;

CC XX

CC mutagenic primer; ss.

CC XX

CC Homo sapiens.

CC XX

CC Synthetic.

CC XX

CC WO200073337-A1.

CC XX

CC 07-DEC-2000.

CC XX

CC 26-MAY-2000; 2000WO-US14741.

CC XX

CC 01-JUN-1999; 99US-0137011.

CC XX

CC 13-AUG-1999; 99US-0149016.

CC XX

CC (BIOJ ) BIOGEN INC.

CC XX

CC Peplinsky RB, Taylor F, Garber E;

CC XX

DR WPI: 2001-049927/06.

XX

XX Modified hedgehog protein, useful in the treatment of Parkinson's

XX disease and Huntington's chorea, comprises a polymer containing a

XX polyalkylene glycol group linked to any residue other than the

XX N-terminal and lysine residues.

XX Example 6; Page 77; 157pp; English.

XX

XX The invention relates to novel polymer conjugates of hedgehog proteins

XX which have increased bioavailability. The hedgehog proteins are

XX conjugated to a non-naturally-occurring polymer comprising a polyalkylene

XX glycol group, with the proviso that the polymer is not conjugated to the

XX N-terminus, or to lysine residues of the hedgehog protein. The hedgehog

XX protein used in the conjugate may be a wild-type or mutant Sonic hedgehog

XX (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be

XX a hedgehog fusion protein. The invention also relates to methods of

XX defining and mapping functionally important regions of a protein by

XX modifying accessible amino acid side chains, and determining the effect

XX the position and/or type of modification have on the activity of the

XX protein. The hedgehog polymer conjugates may be used in the management of

XX various medical conditions including various neurological disorders,

XX inflammatory and autoimmune diseases, and cancers. In particular, they

XX may be used to prevent preventing or ameliorate neurodegenerative

XX disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's

XX disease); age-associated neurological diseases; neurological injury and

XX trauma; immunological diseases of the nervous system (e.g., multiple

XX sclerosis); stroke; and malignant gliomas, medulloblastomas and

XX neuroectodermal tumours. The modifications made to the hedgehog protein

XX may result in increased half-life, altered tissue distribution (such as

XX an improved ability to stay in the vasculature for longer periods of

XX time), increased stability in solution, protection from proteolytic

XX degradation, or reduced immunogenicity. In particular, the ability to

XX remain in the vasculature for prolonged periods may allow a hedgehog

XX protein of the invention to cross the blood-brain barrier, and an

XX increased thermal stability would be an advantage when formulating the

XX hedgehog protein in powder form. The present sequence represents a

XX human Sonic hedgehog mutagenic primer used in an exemplification of the

XX invention.

XX

XX Sequence 48 BP; 10 A; 15 C; 7 G; 16 T; 0 other;

XX

XX Query Match 2.7%; Score 43.2; DB 22; Length 48;

XX Best Local Similarity 93.8%; Pred. No. 1e+02; Mismatches 3; Indels 0; Gaps 0;

XX Matches 45; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

XX

XX 398 GACATCATATTATTTAGGATGAGAAACACCGAGCGGACGCTGATG 445

XX Db

XX 48 GACATCATATTATTTAGGATGAGAAACACCGAGCGGACGCTGATG 1

XX

XX RESULT 10

XX AAD09080/C

XX AAD09080 standard; DNA; 50 BP.

XX ID

XX AAD09080;

XX XX

XX 04-SEP-2001 (first entry)

XX XX

XX Human oligonucleotide HOG-806 used to construct PMKC25.

XX XX

XX Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;

XX XX

XX cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;

XX XX

XX Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;

XX XX

XX nervous system aging; neurodegenerative disease; immunological disease;

XX XX

XX extracellular signaling protein; HOG-806; ss.

XX XX

XX Homo sapiens.

XX OS

XX WO200134654-A1.

XX XX

XX 17-MAY-2001.

XX XX

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XX 02-NOV-2000; 2000MO-US30405.
PF
XX
XX 05-NOV-1999; 99US-0164025.
PR
XX
XX (BIOJ ) BIOGEN INC.
PA
XX
XX Strauch K;
PI
XX
XX WPI: 2001-329075/34.
DR
XX
XX Novel isolated hedgehog fusion polypeptide useful for treating
PT neurological conditions such as Alzheimer's disease, Parkinson's
PT disease, Huntington's chorea, amyotrophic lateral sclerosis, and
PT multiple sclerosis -
XX
XX Example 1; Page 62; 178pp; English.
PS
XX
XX The present invention relates to hedgehog fusion proteins. Hedgehog
CC proteins are a family of extracellular signalling proteins that regulate
CC various aspects of embryonic development both in vertebrates and in
CC invertebrates. Hedgehog fusion protein is useful for the prophylaxis or
CC treatment of any condition or disease state for which a hedgehog or
CC patched protein constituent is efficacious and in the diagnosis of
CC constituents or conditions of disease states in non-physiological systems.
CC Hedgehog fusion protein is useful for treating neurological conditions
CC due to injury, aging of nervous system, including Alzheimer's disease,
CC chronic neurodegenerative diseases of the nervous system, including
CC Parkinson's disease, Huntington's chorea, amyotrophic lateral sclerosis
CC and chronic immunological diseases of the nervous system including multiple
CC sclerosis and malignant gliomas, medulloblastomas, neuroectodermal
CC tumours and to specifically target medical therapies against cancers and
CC tumours which express the receptor for the protein. The present sequence
CC is human oligonucleotide HOG-806 used to construct pMNC25 plasmid which
CC
XX
SQ Sequence 50 BP; 6 A; 16 C; 16 G; 12 T; 0 other;
Query Match 2.7%; Score 42; DB 22; Length 50;
Best Local Similarity 90.0%; Pred. No. 1.6e+02;
Matches 45; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 228 CGGCGAGGGGTTGGGAGAGGAGGACCCCAAAAAGCTGACCCCTTTA 277
Db 50 CGGCGAGGGGTTGGGAGAGGAGGACCCCAAAAAGCTGACCCCTTTA 1
RESULT 11
AADD09082/c
ID AAD09082 standard; DNA; 43 BP.
XX
XX AAD09082;
AC
XX
XX 04-SEP-2001 (first entry)
DT
XX
XX Human oligonucleotide HOG-808 used to construct pMNC22.
DE
XX
XX Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;
KW cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;
KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;
KW nervous system aging; neurodegenerative disease; immunological disease;
KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;
KW extracellular signalling protein; HOG-808; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200134654-A1.
PN
XX
XX 17-MAY-2001.
PD
XX
XX 02-NOV-2000; 2000MO-US30405.
PF
XX
XX
XX

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PR 05-NOV-1999; 99US-0164025.
XX
XX (BIOJ ) BIOGEN INC.
PA
XX
XX Strauch K;
PI
XX
XX WPI: 2001-329075/34.
DR
XX
XX Novel isolated hedgehog fusion polypeptide useful for treating
PT neurological conditions such as Alzheimer's disease, Parkinson's
PT disease, Huntington's chorea, amyotrophic lateral sclerosis, and
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XX
XX Example 1; Page 62; 178pp; English.
PS
XX
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CC various aspects of embryonic development both in vertebrates and in
CC invertebrates. Hedgehog fusion protein is useful for the prophylaxis or
CC treatment of any condition or disease state for which a hedgehog or
CC patched protein constituent is efficacious and in the diagnosis of
CC constituents or conditions of disease states in non-physiological systems.
CC Hedgehog fusion protein is useful for treating neurological conditions
CC due to injury, aging of nervous system, including Alzheimer's disease,
CC chronic neurodegenerative diseases of the nervous system, including
CC Parkinson's disease, Huntington's chorea, amyotrophic lateral sclerosis
CC and chronic immunological diseases of the nervous system including multiple
CC sclerosis and malignant gliomas, medulloblastomas, neuroectodermal
CC tumours and to specifically target medical therapies against cancers and
CC tumours which express the receptor for the protein. The present sequence
CC is human oligonucleotide HOG-808 used to construct pMNC22, pMNC23, pMNC25
CC and pMNC26 plasmids which are used in the invention.
CC
XX
SQ Sequence 43 BP; 8 A; 10 C; 14 G; 11 T; 0 other;
Query Match 2.6%; Score 41.4; DB 22; Length 43;
Best Local Similarity 97.7%; Pred. No. 2.1e+02;
Matches 42; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 278 GCTTACAGACGATTATCCCAATGTGCGGAGAGACCCCTAG 320
Db 43 GCTTACAGACGATTATCCCAATGTGCGGAGAGACCCCTAG 1
RESULT 12
AADD09076
ID AAD09076 standard; DNA; 47 BP.
XX
XX AAD09076;
AC
XX
XX 04-SEP-2001 (first entry)
DT
XX
XX Human oligonucleotide HOG-797 used to construct pMNC26.
DE
XX
XX Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;
KW cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;
KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;
KW nervous system aging; neurodegenerative disease; immunological disease;
KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;
KW extracellular signalling protein; HOG-797; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200134654-A1.
PN
XX
XX 17-MAY-2001.
PD
XX
XX 02-NOV-2000; 2000MO-US30405.
PF
XX
XX 05-NOV-1999; 99US-0164025.
PR
XX
XX (BIOJ ) BIOGEN INC.
PA

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DR WPI; 2001-049927/06.  
 XX Modified hedgehog protein, useful in the treatment of Parkinson's  
 PT disease and Huntington's chorea, comprises a polymer containing a  
 PT polyalkylene glycol group linked to any residue other than the  
 PT N-terminal and lysine residues.  
 PS Example 6; Page 77; 157pp; English.  
 XX  
 CC The invention relates to novel polymer conjugates of hedgehog proteins  
 CC which have increased bioavailability. The hedgehog proteins are  
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
 CC glycol group, with the proviso that the polymer is not conjugated to the  
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
 CC a hedgehog fusion protein. The invention also relates to methods of  
 CC defining and mapping functionally important regions of a protein by  
 CC the position and/or type of modification have on the activity of the  
 CC protein. The hedgehog polymer conjugates may be used in the management of  
 CC various medical conditions including various neurological disorders,  
 CC inflammatory and autoimmune diseases, and cancers. In particular, they  
 CC may be used to prevent preventing or ameliorate neurodegenerative  
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's  
 CC disease), age-associated neurological disease, neurological injury and  
 CC trauma, immunological diseases of the nervous system (e.g., multiple  
 CC sclerosis), stroke, and malignant gliomas, medulloblastomas and  
 CC neuroectodermal tumours. The modifications made to the hedgehog protein  
 CC may result in increased half-life, altered tissue distribution (such as  
 CC an improved ability to stay in the vasculature for longer periods of  
 CC time), increased stability in solution, protection from proteolytic  
 CC degradation, or reduced immunogenicity. In particular, the ability to  
 CC remain in the vasculature for prolonged periods may allow a hedgehog  
 CC protein of the invention to cross the blood-brain barrier, and an  
 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a  
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention.  
 XX  
 SO Sequence 42 BP; 8 A; 13 C; 9 G; 12 T; 0 other;  
 Query Match 2.4%; Score 37.2; DB 22; Length 42;  
 Best Local Similarity 92.9%; Pred. No. 1e+03; Indels 0; Gaps 0;  
 Matches 39; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 OY 338 GAAGGGAAGATCTCCAGAACTCGAGCGATTGAAGAACTC 379  
 DB 42 GAAGGGAAGATCTCCAGCGTCTCCGAGCGATTGAAGAACTC 1  
 RESULT 15  
 ID AAF27036 standard; DNA: 42 BP.  
 XX  
 AC AAF27036;  
 XX  
 DT 30-MAR-2001 (first entry)  
 XX  
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:40.  
 KW Sonic hedgehog; Shh: polymer conjugate; polyalkene glycol group;  
 KW bioavailability; formulation; neurological disorder;  
 KW inflammatory disorder; autoimmune disorder; cancer;  
 KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;  
 KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;  
 KW malignant glioma; medulloblastoma; neuroectodermal tumour;  
 KW mutagenic primer; ss.  
 XX  
 XX Homo sapiens.  
 OS Synthetic.  
 OS  
 XX  
 PN WO200073337-A1.

XX  
 PD 07-DEC-2000.  
 XX  
 PF 26-MAY-2000; 2000MO-US14741.  
 XX  
 PR 01-JUN-1999; 99US-0137011.  
 PR 13-AUG-1999; 99US-0149016.  
 XX  
 PA (BIOJ ) BIOGEN INC.  
 XX  
 PI Pepinsky RB, Taylor F, Garber E;  
 DR WPI; 2001-049927/06.  
 XX  
 PT Modified hedgehog protein, useful in the treatment of Parkinson's  
 PT disease and Huntington's chorea, comprises a polymer containing a  
 PT polyalkylene glycol group linked to any residue other than the  
 PT N-terminal and lysine residues.  
 PS Example 6; Page 77; 157pp; English.  
 XX  
 CC The invention relates to novel polymer conjugates of hedgehog proteins  
 CC which have increased bioavailability. The hedgehog proteins are  
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
 CC glycol group, with the proviso that the polymer is not conjugated to the  
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
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 CC disease), age-associated neurological disease, neurological injury and  
 CC trauma, immunological diseases of the nervous system (e.g., multiple  
 CC sclerosis), stroke, and malignant gliomas, medulloblastomas and  
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 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a  
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention.  
 XX  
 SO Sequence 42 BP; 11 A; 14 C; 9 G; 8 T; 0 other;  
 Query Match 2.4%; Score 37.2; DB 22; Length 42;  
 Best Local Similarity 92.9%; Pred. No. 1e+03; Indels 0; Gaps 0;  
 Matches 39; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 OY 474 CTTGGCCATCTCGGTGATGACCACTGCGAGGGAAGC 515  
 DB 42 CTTGGCCATCTCGGTGATGTCAGTGGCCAGAGTGAAC 1  
 RESULT 16  
 ID AAF27039 standard; DNA: 38 BP.  
 XX  
 AC AAF27039;  
 XX  
 DT 30-MAR-2001 (first entry)  
 XX  
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:43.  
 KW Sonic hedgehog; Shh: polymer conjugate; polyalkene glycol group;  
 KW bioavailability; formulation; neurological disorder;  
 KW inflammatory disorder; autoimmune disorder; cancer;  
 KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;  
 KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;  
 KW malignant glioma; medulloblastoma; neuroectodermal tumour;  
 KW mutagenic primer; ss.  
 XX  
 XX Homo sapiens.  
 OS Synthetic.  
 OS  
 XX  
 PN WO200073337-A1.

KM Sonic hedgehog; Shh: polymer conjugate; polyalkene glycol group;  
 KM bioavailability; formulation; neurological disorder;  
 KM inflammatory disorder; autoimmune disorder; cancer;  
 KM neurodegenerative disorder; Parkinson's disease; Huntington's disease;  
 KM Alzheimer's disease; neurological injury; stroke; multiple sclerosis;  
 KM malignant glioma; medulloblastoma; neuroectodermal tumour;  
 KM mutagenic primer; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX WO200073337-A1.  
 XX  
 PD 07-DEC-2000.  
 XX  
 PF 26-MAY-2000; 2000WO-US14741.  
 XX  
 PR 01-JUN-1999; 99US-0137011.  
 PR 13-AUG-1999; 99US-0149016.  
 XX  
 PA (BIOJ ) BIOGEN INC.  
 PI pepinsky RB, Taylor F, Garber E;  
 DR WPI; 2001-049927/06.  
 XX  
 PT Modified hedgehog protein, useful in the treatment of Parkinson's  
 PT disease and Huntington's chorea, comprises a polymer containing a  
 PT polyalkylene glycol group linked to any residue other than the  
 PT N-terminal and lysine residues -  
 PT  
 XX  
 PS Example 6; Page 77; 157pp; English.  
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 CC disease), age-associated neurological disease; neurological injury and  
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 CC time), increased stability in solution, protection from proteolytic  
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 CC remain in the vasculature for prolonged periods may allow a hedgehog  
 CC protein in the invention to cross the blood-brain barrier, and an  
 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a  
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention.  
 CC  
 XX  
 SQ Sequence 38 BP; 8 A; 11 C; 9 G; 10 T; 0 other;  
 Query Match 2.3%; Score 36.4; DB 22; Length 38;  
 Best Local Similarity 97.4%; Pred. No. 1.4e+03;  
 Matches 37; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 662 GACTGGGTGTTACTACGAGTCCAGGACACATATCCACTG 699  
 38 GACTGGGTGTTACTACGAGTCCAGGACACATATCCACTG 1

RESULT 17  
 AAF27025/C  
 ID AAF27025 standard; DNA; 49 BP.  
 XX  
 AC AAF27025;  
 XX  
 DT 30-MAR-2001 (first entry)  
 XX  
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:29.  
 XX  
 KM Sonic hedgehog; Shh: polymer conjugate; polyalkene glycol group;  
 KM bioavailability; formulation; neurological disorder;  
 KM inflammatory disorder; autoimmune disorder; cancer;  
 KM neurodegenerative disorder; Parkinson's disease; Huntington's disease;  
 KM Alzheimer's disease; neurological injury; stroke; multiple sclerosis;  
 KM malignant glioma; medulloblastoma; neuroectodermal tumour;  
 KM mutagenic primer; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX WO200073337-A1.  
 XX  
 PD 07-DEC-2000.  
 XX  
 PF 26-MAY-2000; 2000WO-US14741.  
 XX  
 PR 01-JUN-1999; 99US-0137011.  
 PR 13-AUG-1999; 99US-0149016.  
 XX  
 PA (BIOJ ) BIOGEN INC.  
 PI pepinsky RB, Taylor F, Garber E;  
 DR WPI; 2001-049927/06.  
 XX  
 PT Modified hedgehog protein, useful in the treatment of Parkinson's  
 PT disease and Huntington's chorea, comprises a polymer containing a  
 PT polyalkylene glycol group linked to any residue other than the  
 PT N-terminal and lysine residues -  
 PT  
 XX  
 PS Example 2; Page 67; 157pp; English.  
 CC The invention relates to novel polymer conjugates of hedgehog proteins  
 CC which have increased bioavailability. The hedgehog proteins are  
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
 CC glycol group, with the proviso that the polymer is not conjugated to the  
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
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 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and  
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 CC an improved ability to stay in the vasculature for longer periods of  
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 CC degradation, or reduced immunogenicity. In particular, the ability to  
 CC remain in the vasculature for prolonged periods may allow a hedgehog  
 CC protein in the invention to cross the blood-brain barrier, and an  
 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a

CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention.  
 CC  
 XX  
 SQ Sequence 49 BP; 8 A; 18 C; 9 G; 14 T; 0 other;  
 Query Match 2.3%; Score 36; DB 22; Length 49;  
 Best Local Similarity 88.6%; Pred. No. 1.7e+03;  
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 OY 703 GGTGAAGCAGAGAACTCGTGGCGCCAAATCGGAGCTGCT 746  
 Db 49 GGTGAAGCAGAGAACTCGTGGCGCCAAATCGGAGCTGAT 6  
 RESULT 18  
 AAF27038/C  
 ID AAF27038 standard; DNA; 39 BP.  
 XX  
 AC AAF27038;  
 XX  
 DT 30-MAR-2001 (first entry)  
 XX  
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:42.  
 XX  
 KW Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;  
 KW bioavailability; formulation; neurological disorder;  
 KW inflammatory disorder; autoimmune disorder; cancer;  
 KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;  
 KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;  
 KW malignant glioma; medulloblastoma; neuroectodermal tumour;  
 KW mutagenic primer; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 OS  
 XX  
 PN WO200073337-A1.  
 XX  
 PD 07-DEC-2000.  
 XX  
 PF 26-MAY-2000; 2000WO-US14741.  
 XX  
 PR 01-JUN-1999; 99US-0137011.  
 PR 13-AUG-1999; 99US-0149016.  
 XX  
 PA (BIOI ) BIOGEN INC.  
 PI  
 PI Pepinsky RB, Taylor F, Garber E;  
 PI  
 DR WPI; 2001-049927/06.  
 XX  
 PT Modified hedgehog protein, useful in the treatment of Parkinson's  
 PT disease and Huntington's chorea, comprises a polymer containing a  
 PT polyalkylene glycol group linked to any residue other than the  
 PT N-terminal and lysine residues -  
 XX  
 XX  
 Example 6; Page 77; 157pp; English.  
 CC The invention relates to novel polymer conjugates of hedgehog proteins  
 CC which have increased bioavailability. The hedgehog proteins are  
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
 CC glycol group, with the proviso that the polymer is not conjugated to the  
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
 CC a hedgehog fusion protein. The invention also relates to methods of  
 CC defining and mapping functionally important regions of a protein by  
 CC modifying accessible amino acid side chains, and determining the effect  
 CC the position and/or type of modification have on the activity of the  
 CC protein. The hedgehog polymer conjugates may be used in the management of  
 CC various medical conditions including various neurological disorders,  
 CC inflammatory and autoimmune diseases, and cancers. In particular, they  
 CC may be used to prevent preventing or ameliorate neurodegenerative  
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's

CC disease); age-associated neurological disease; neurological injury and  
 CC trauma; immunological diseases of the nervous system (e.g., multiple  
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and  
 CC neuroectodermal tumours. The modifications made to the hedgehog protein  
 CC may result in increased half-life, altered tissue distribution (such as  
 CC an improved ability to stay in the vasculature for longer periods of  
 CC time), increased stability in solution, protection from proteolytic  
 CC degradation, or reduced immunogenicity. In particular, the ability to  
 CC remain in the vasculature for prolonged periods may allow a hedgehog  
 CC protein of the invention to cross the blood-brain barrier, and an  
 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a  
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention.  
 CC  
 XX  
 SQ Sequence 39 BP; 7 A; 12 C; 13 G; 7 T; 0 other;  
 Query Match 2.3%; Score 35.8; DB 22; Length 39;  
 Best Local Similarity 94.9%; Pred. No. 1.8e+03;  
 Matches 37; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 OY 597 CCACGCTGACCGCGCAGCAGAGTACGGCATGCTGG 635  
 Db 39 CCACGCTGACCGCGCAGCAGTACGGCATGCTGG 1  
 RESULT 19  
 AAF27035/C  
 ID AAF27035 standard; DNA; 42 BP.  
 XX  
 AC AAF27035;  
 XX  
 DT 30-MAR-2001 (first entry)  
 XX  
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:39.  
 XX  
 KW Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;  
 KW bioavailability; formulation; neurological disorder;  
 KW inflammatory disorder; autoimmune disorder; cancer;  
 KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;  
 KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;  
 KW malignant glioma; medulloblastoma; neuroectodermal tumour;  
 KW mutagenic primer; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 OS  
 XX  
 PN WO200073337-A1.  
 XX  
 PD 07-DEC-2000.  
 XX  
 PF 26-MAY-2000; 2000WO-US14741.  
 XX  
 PR 01-JUN-1999; 99US-0137011.  
 PR 13-AUG-1999; 99US-0149016.  
 XX  
 PA (BIOI ) BIOGEN INC.  
 PI  
 PI Pepinsky RB, Taylor F, Garber E;  
 PI  
 DR WPI; 2001-049927/06.  
 XX  
 PT Modified hedgehog protein, useful in the treatment of Parkinson's  
 PT disease and Huntington's chorea, comprises a polymer containing a  
 PT polyalkylene glycol group linked to any residue other than the  
 PT N-terminal and lysine residues -  
 XX  
 XX  
 Example 6; Page 77; 157pp; English.  
 CC The invention relates to novel polymer conjugates of hedgehog proteins  
 CC which have increased bioavailability. The hedgehog proteins are  
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
 CC glycol group, with the proviso that the polymer is not conjugated to the

CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
 CC a hedgehog fusion protein. The invention also relates to methods of  
 CC defining and mapping functionally important regions of a protein by  
 CC modifying accessible amino acid side chains, and determining the effect  
 CC the position and/or type of modification have on the activity of the  
 CC protein. The hedgehog polymer conjugates may be used in the management of  
 CC various medical conditions including various neurological disorders,  
 CC inflammatory and autoimmune diseases, and cancers. In particular, they  
 CC may be used to prevent preventing or ameliorate neurodegenerative  
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's  
 CC disease), age-associated neurological disease, neurological injury and  
 CC trauma; immunological diseases of the nervous system (e.g., multiple  
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and  
 CC neuroectodermal tumours. The modifications made to the hedgehog protein  
 CC may result in increased half-life, altered tissue distribution (such as  
 CC an improved ability to stay in the vasculature for longer periods of  
 CC time), increased stability in solution, protection from proteolytic  
 CC degradation, or reduced immunogenicity. In particular, the ability to  
 CC remain in the vasculature for prolonged periods may allow a hedgehog  
 CC protein of the invention to cross the blood-brain barrier, and an  
 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a  
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention.

XX Sequence 42 BP; 11 A; 11 C; 10 G; 10 T; 0 other;

Query Match 2.3%; Score 35.6; DB 22; Length 42;  
 Best Local Similarity 90.5%; Pred. No. 1.9e+03;

Matches 38; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 445 GACTCAGAGGCTAGAGCAGTGTGAGCTTGGCCATCTC 486  
 DB 42 GACTCAGAGGCTAGAGCAGTGTGAGCTTGGCCATCTC 1

RESULT 20  
 AAF27037/C

ID AAF27037 standard; DNA: 37 BP.

AC AAF27037;

DT 30-MAR-2001 (first entry)

DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:41.

XX Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;

KW bioavailability; formulation; neurological disorder;

KW inflammatory disorder; autoimmune disorder; cancer;

KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;

KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;

KW malignant glioma; medulloblastoma; neuroectodermal tumour;

KW mutagenic primer; ss.

OS Homo sapiens.

OS Synthetic.

PN WO200073337-A1.

XX 07-DEC-2000.

XX 26-MAY-2000; 2000WO-US14741.

XX 01-JUN-1999; 99US-0137011.

XX 13-AUG-1999; 99US-0149016.

XX (BIOJ ) BIOGEN INC.

XX Peplinsky RB, Taylor F, Garber E;

XX WPI; 2001-049927/06.

XX Modified hedgehog protein, useful in the treatment of Parkinson's  
 PT disease and Huntington's chorea, comprises a polymer containing a  
 PT polyalkylene glycol group linked to any residue other than the  
 PT N-terminal and lysine residues -

XX Example 6; Page 77; 157pp; English.

CC The invention relates to novel polymer conjugates of hedgehog proteins  
 CC which have increased bioavailability. The hedgehog proteins are  
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
 CC glycol group, with the proviso that the polymer is not conjugated to the  
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
 CC a hedgehog fusion protein. The invention also relates to methods of  
 CC defining and mapping functionally important regions of a protein by  
 CC modifying accessible amino acid side chains, and determining the effect  
 CC the position and/or type of modification have on the activity of the  
 CC protein. The hedgehog polymer conjugates may be used in the management of  
 CC various medical conditions including various neurological disorders,  
 CC inflammatory and autoimmune diseases, and cancers. In particular, they  
 CC may be used to prevent preventing or ameliorate neurodegenerative  
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's  
 CC disease), age-associated neurological disease, neurological injury and  
 CC trauma; immunological diseases of the nervous system (e.g., multiple  
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and  
 CC neuroectodermal tumours. The modifications made to the hedgehog protein  
 CC may result in increased half-life, altered tissue distribution (such as  
 CC an improved ability to stay in the vasculature for longer periods of  
 CC time), increased stability in solution, protection from proteolytic  
 CC degradation, or reduced immunogenicity. In particular, the ability to  
 CC remain in the vasculature for prolonged periods may allow a hedgehog  
 CC protein of the invention to cross the blood-brain barrier, and an  
 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a  
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention.

XX Sequence 37 BP; 6 A; 10 C; 12 G; 9 T; 0 other;

Query Match 2.1%; Score 33.8; DB 22; Length 37;  
 Best Local Similarity 94.6%; Pred. No. 3.9e+03;

Matches 35; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 538 CGAAGATGCCACCCAGCTCAGAGTCTCTGCACTAC 574  
 DB 37 CGAAGATGCCACCCAGCTCAGAGTCTCTGCACTAC 1

RESULT 21  
 AAF27041/C

ID AAF27041 standard; DNA: 35 BP.

AC AAF27041;

DT 30-MAR-2001 (first entry)

DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:45.

XX Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;

KW bioavailability; formulation; neurological disorder;

KW inflammatory disorder; autoimmune disorder; cancer;

KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;

KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;

KW malignant glioma; medulloblastoma; neuroectodermal tumour;

XX mutagenic primer; ss.

OS Homo sapiens.

OS Synthetic.

PN WO200073337-A1.

PD 07-DEC-2000.  
XX  
XX 26-MAY-2000; 2000WO-US14741.  
XX  
XX 01-JUN-1999; 99US-0137011.  
PR 13-AUG-1999; 99US-0149016.  
XX  
XX (BIOJ ) BIOGEN INC.  
XX  
XX Pepinsky RB, Taylor F, Garber E;  
XX WPI: 2001-049927/06.  
XX  
XX Modified hedgehog protein, useful in the treatment of Parkinson's  
PT disease and Huntington's chorea, comprises a polymer containing a  
PT polyalkylene glycol group linked to any residue other than the  
PT N-terminal and lysine residues -  
XX  
XX Example 6; Page 77; 157pp; English.  
XX  
XX The invention relates to novel polymer conjugates of hedgehog proteins  
CC which have increased bioavailability. The hedgehog proteins are  
CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
CC glycol group, with the proviso that the polymer is not conjugated to the  
CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
CC a hedgehog fusion protein. The invention also relates to methods of  
CC defining and mapping functionally important regions of a protein by  
CC modifying accessible amino acid side chains, and determining the effect  
CC the position and/or type of modification have on the activity of the  
CC protein. The hedgehog polymer conjugates may be used in the management of  
CC various medical conditions including various neurological disorders,  
CC inflammatory and autoimmune diseases, and cancers. In particular, they  
CC may be used to prevent preventing or ameliorate neurodegenerative  
CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's  
CC disease); age-associated neurological disease; neurological injury and  
CC trauma; immunological diseases of the nervous system (e.g., multiple  
CC sclerosis); stroke; and malignant gliomas, medulloblastomas and  
CC neuroectodermal tumours. The modifications made to the hedgehog protein  
CC may result in increased half-life, altered tissue distribution (such as  
CC an improved ability to stay in the vasculature for longer periods of  
CC time), increased stability in solution, protection from proteolytic  
CC degradation, or reduced immunogenicity. In particular, the ability to  
CC remain in the vasculature for prolonged periods may allow a hedgehog  
CC protein of the invention to cross the blood-brain barrier, and an  
CC increased thermal stability would be an advantage when formulating the  
CC hedgehog protein in powder form. The present sequence represents a  
CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
CC invention.  
XX  
XX Sequence 35 BP; 8 A; 15 C; 9 G; 3 T; 0 other;  
SQ  
Query Match 2.1%; Score 33.4; DB 22; Length 35;  
Best Local Similarity 97.1%; Pred. No. 4.6e+03;  
Matches 34; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
OY 639 GCCTGGGGTGGAGCGCGCTTCGACGTGGGTAC 673  
DB 35 GCCTGGGGTGGAGCGCGCTTCGACGTGGGTAC 1  
AAAF27040/c  
ID AAF27040 standard; DNA: 37 BP.  
XX  
XX AAF27040;  
XX  
XX 30-MAR-2001 (first entry)  
XX  
XX Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:44.  
DE  
XX  
XX Sonic hedgehog; Shh; polymer conjugate; polyalkylene glycol group;  
KM

KW bioavailability; formulation; neurological disorder;  
KW inflammatory disorder; autoimmune disorder; cancer;  
KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;  
KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;  
KW malignant glioma; medulloblastoma; neuroectodermal tumour;  
KW mutagenic primer; ss.  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
XX  
XX WO200073337-A1.  
XX  
XX 07-DEC-2000.  
XX  
XX 26-MAY-2000; 2000WO-US14741.  
XX  
XX 01-JUN-1999; 99US-0137011.  
PR 13-AUG-1999; 99US-0149016.  
XX  
XX (BIOJ ) BIOGEN INC.  
XX  
XX Pepinsky RB, Taylor F, Garber E;  
XX WPI: 2001-049927/06.  
XX  
XX Modified hedgehog protein, useful in the treatment of Parkinson's  
PT disease and Huntington's chorea, comprises a polymer containing a  
PT polyalkylene glycol group linked to any residue other than the  
PT N-terminal and lysine residues -  
XX  
XX Example 6; Page 77; 157pp; English.  
XX  
XX The invention relates to novel polymer conjugates of hedgehog proteins  
CC which have increased bioavailability. The hedgehog proteins are  
CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
CC glycol group, with the proviso that the polymer is not conjugated to the  
CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
CC a hedgehog fusion protein. The invention also relates to methods of  
CC defining and mapping functionally important regions of a protein by  
CC modifying accessible amino acid side chains, and determining the effect  
CC the position and/or type of modification have on the activity of the  
CC protein. The hedgehog polymer conjugates may be used in the management of  
CC various medical conditions including various neurological disorders,  
CC inflammatory and autoimmune diseases, and cancers. In particular, they  
CC may be used to prevent preventing or ameliorate neurodegenerative  
CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's  
CC disease); age-associated neurological disease; neurological injury and  
CC trauma; immunological diseases of the nervous system (e.g., multiple  
CC sclerosis); stroke; and malignant gliomas, medulloblastomas and  
CC neuroectodermal tumours. The modifications made to the hedgehog protein  
CC may result in increased half-life, altered tissue distribution (such as  
CC an improved ability to stay in the vasculature for longer periods of  
CC time), increased stability in solution, protection from proteolytic  
CC degradation, or reduced immunogenicity. In particular, the ability to  
CC remain in the vasculature for prolonged periods may allow a hedgehog  
CC protein of the invention to cross the blood-brain barrier, and an  
CC increased thermal stability would be an advantage when formulating the  
CC hedgehog protein in powder form. The present sequence represents a  
CC human Sonic hedgehog mutagenic primer used in an exemplification of the  
CC invention.  
XX  
XX Sequence 37 BP; 7 A; 8 C; 13 G; 9 T; 0 other;  
SQ  
Query Match 2.0%; Score 32.2; DB 22; Length 37;  
Best Local Similarity 91.9%; Pred. No. 7.2e+03;  
Matches 34; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
OY 538 CGAGATGGCCACCACTGAGAGAGTCTGCGACTAC 574  
DB 37 CGAGATGGCCACCACTGAGAGTCTGCGACTAC 1

```

RESULT 23
ABT03768/C
ID ABT03768 standard; DNA; 27 BP.
XX
XX
AC ABT03768;
XX
XX
DT 13-SEP-2002 (first entry)
XX
XX
DE Human SHH gene PCR primer SEQ ID NO: 289.
XX
XX
KW Human; cancer; neoplastic disease; tumour specific marker; cytostatic;
XX
XX
KW transcription factor; PCR; primer; ss.
XX
XX
OS Homo sapiens.
XX
XX
PN WO200240716-A2.
XX
XX
PD 23-MAY-2002.
XX
XX
PF 13-NOV-2001; 2001WO-US43461.
XX
XX
PR 16-NOV-2000; 2000US-249508P.
XX
XX
PA (CEMT-) CEMINES LLC.
XX
XX
PI Palm K;
XX
XX
PS WPI; 2002-537346/57.
XX
XX
PT Determining the presence of neoplastic molecular markers, by
PT identifying the presence of markers in host test sample using array of
PT neoplastic molecular marker specific reagents and analyzing the array
PT of the reagents -
XX
XX
PS Example 1; Page 19; 41pp; English.
XX
XX
CC The present invention relates to a method for determining the presence of
CC neoplastic molecular markers in a host, involving the use of neoplastic
CC molecular marker specific reagents to detect such markers and analysing
CC the array of reagents, allowing the identification of the neoplastic
CC disease present. This can be used to determine the best treatment for
CC cancers, in particular neural cell, lung and prostate tumours. The
CC present sequence is a PCR primer useful for detecting the coding
CC sequences of markers of the invention.
XX
XX
SQ Sequence 27 BP; 3 A; 11 C; 9 G; 4 T; 0 other;
XX
XX
Query Match 1.7%; Score 27; DB 24; Length 27;
Best Local Similarity 100.0%; Pred. No. 5.4e+04;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 755 TCGGCCACGCTGCACCTGAGCAGGCG 781
DB 27 TCGGCCACGCTGCACCTGAGCAGGCG 1
XX
XX
RESULT 24
AAQ33571
ID AAQ33571 standard; DNA; 46 BP.
XX
XX
AC AAQ33571;
XX
XX
DT 02-FEB-1993 (first entry)
XX
XX
DE Microsatellite sequence from clone AGLA259.
XX
XX
KW PCR selection; primers; OPTIPRIM; breeding; cattle; parentage;
XX
XX
KW genetic mapping; traits; amplification; ss.
XX
XX
OS Bos taurus.
XX
XX
PN WO9213102-A.

```

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XX
XX
PD 06-AUG-1992.
XX
XX
PF 15-JAN-1992; 92WO-US00340.
XX
XX
PR 15-JAN-1991; 91US-0642342.
XX
XX
PA (GENM-) GENMARK.
XX
XX
PI Georges M, Massey JM;
XX
XX
DR WPI; 1992-284684/34.
XX
XX
PT Polymorphic bovine DNA markers - used in genetic identification,
PT gene mapping, and selective breeding
XX
XX
PS Table 7; Page 157; 517pp; English.
XX
XX
CC The sequence is that of a bovine microsatellite sequence obtd. by
CC screening a library of bovine MboI DNA fragments of between
CC 250 and 500 bp with an (AC)15 and a (TC)15 oligonucleotide probe.
CC One out of 50 clones cross-hybridised. Assuming independent
CC distribution of microsatellites in the bovine genome is estimated at >100,
CC (T6)n >9 microsatellites in the bovine genome is estimated at >100,
CC 000. The sequence information for ca. 230 such bovine microsatellites
CC is summarised in the specification and indexed herein (see below).
CC The sequences upstream and downstream of the microsatellite sequence
CC were used to generate the required PCR primers for in vitro
CC amplification of the corresp. microsatellite (using the program
CC OPTIPRIM). The microsatellites may be used to identify individuals,
CC for parentage testing, and in the genetic mapping of economic trait
CC loci, or genes involved in the determination of economically important
CC traits esp. in cattle, to allow selective breeding.
XX
XX
SQ Sequence 46 BP; 18 A; 2 C; 26 G; 0 U; 0 other;
XX
XX
Query Match 1.7%; Score 26.8; DB 13; Length 46;
Best Local Similarity 73.9%; Pred. No. 5.8e+04;
Matches 34; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
XX
QY 24 AGCAGCGGCGAGCCGAGAGGAAAGCGGAGAGAG 69
DB 1 AGCAGCGGCGAGCGGAGAGCGGAGAGAGAGAGAG 46
XX
XX
RESULT 25
AAF60024
ID AAF60024 standard; DNA; 45 BP.
XX
XX
AC AAF60024;
XX
XX
DT 26-APR-2001 (first entry)
XX
XX
DE DNA linker.
XX
XX
KW Antibody; sperm; S19; contraception; ss.
XX
XX
OS Synthetic.
XX
XX
PN WO200107083-A1.
XX
XX
PD 01-FEB-2001.
XX
XX
PF 21-JUL-2000; 2000WO-US19843.
XX
XX
PR 23-JUL-1999; 99US-0145512.
XX
XX
PA (UYVI-) UNIV VIRGINIA PATENT FOUND.
XX
XX
PI Heir JC, Norton EJ, Diekman AB;
XX
XX
PN WPI; 2001-182730/18.

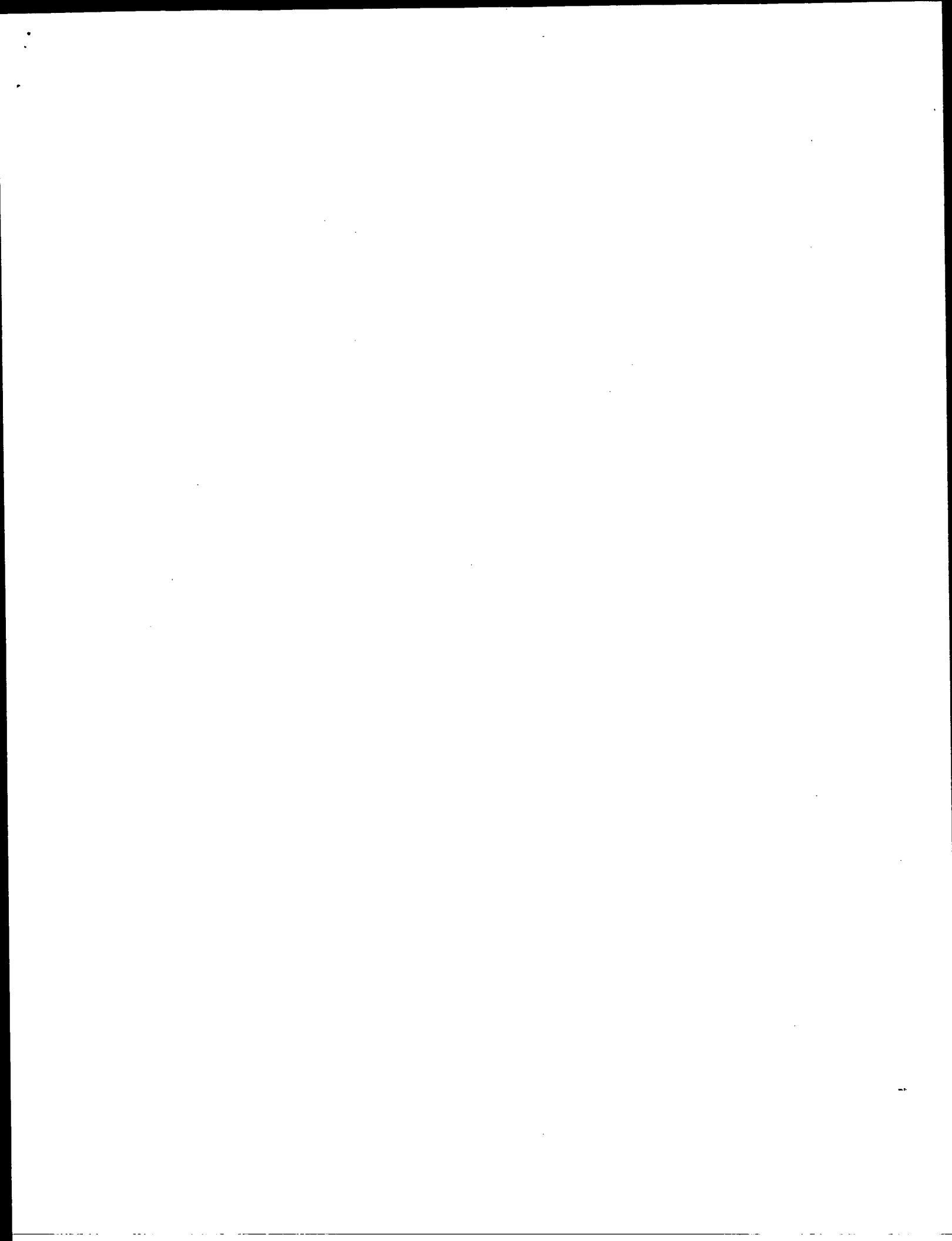
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PS Disclosure; Page 43; 48pp; English.  
xx

50 Sequence 45 BP; 2 A; 10 C; 27 G; 6 T; 0 other;

QY 1341 GCGGCGGGGACACCGCGCGCGGGGACCCGCGGGCGCGCGCGG 1384  
|||||  
Db 2 GCGGCGGGGACACCGCGGCTTCTGCGGGCGCGCGACG 45

Job time : 426 secs





GenCore version 5.1.4\_P5\_4578  
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 21:52:28 ; Search time 72 Seconds  
(Without alignments)  
6712.814 Million cell updates/sec

Title: US-10-001-844-3

Perfect score: 1576

Sequence: 1 gcgagcgacccagcgagggga.....gagggcgcgagggaggggc 1576

Scoring table: IDENTITY\_NIC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 609818

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

Issued\_Patents\_NA:\*  
1: /cgn2\_6/ptodata/1/ina/5A.COMB.seq:\*  
2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PCITUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/Backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
C 1	36	2.3	49	4	US-09-325-256-31
2	28.2	1.8	50	4	US-09-930-181-14
3	26	1.6	50	4	US-09-580-923-35
4	25	1.6	33	1	US-08-068-747-7
5	24.6	1.6	50	3	US-08-846-020A-6
6	24	1.6	50	4	US-09-617-871-6
7	24	1.5	24	1	US-08-748-591-11
8	24	1.5	24	2	US-08-356-060A-43
9	24	1.5	24	4	US-08-460-900C-43
10	24	1.5	24	4	US-08-674-509B-43
11	24	1.5	24	4	US-08-954-658-43
12	24	1.5	24	4	US-08-957-874-43
13	24	1.5	45	1	US-08-258-026A-13
14	24	1.5	45	4	US-09-813-781-129
15	24	1.5	45	5	PCT-US95-07541-13
C 16	23.6	1.5	38	4	US-08-068-747-2
17	23.6	1.5	38	4	US-09-499-884-12
18	23.6	1.5	48	4	US-09-497-933A-19
19	23.6	1.5	50	4	US-09-930-181-13
C 20	23.4	1.5	25	1	US-08-748-591-12
21	22.4	1.4	32	4	US-09-083-123-5
22	22	1.4	47	4	US-09-325-256-30
23	21.8	1.4	35	1	US-08-340-045-7
24	21.8	1.4	35	4	US-08-871-302A-7
25	21.6	1.4	40	4	US-09-465-737B-5
C 26	21.4	1.4	31	4	US-09-083-123-4
27	21.4	1.4	50	4	US-09-165-264-4

28	21.2	1.3	49	4	US-09-183-866-7	Sequence 7, Appli
29	21	1.3	47	4	US-09-641-638-935	Sequence 935, App
30	21	1.3	47	4	US-09-641-638-1096	Sequence 1096, App
C 31	21	1.3	50	1	US-08-171-389-374	Sequence 374, App
C 32	21	1.3	50	1	US-08-123-936-374	Sequence 374, App
C 33	21	1.3	50	2	US-08-475-228A-374	Sequence 374, App
C 34	21	1.3	50	3	US-08-482-080A-374	Sequence 374, App
C 35	21	1.3	50	5	US-09-354-947-374	Sequence 374, App
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C 37	20.8	1.3	47	4	US-09-641-638-934	Sequence 934, App
C 38	20.8	1.3	49	4	US-08-478-097A-33	Sequence 934, App
C 39	20.8	1.3	49	4	US-09-538-709-1159	Sequence 1159, App
C 40	20.6	1.3	45	1	US-07-885-689A-2	Sequence 2, Appli
C 41	20.6	1.3	45	4	US-08-487-761-1	Sequence 1, Appli
C 42	20.6	1.3	45	4	US-09-497-933A-22	Sequence 2, Appli
C 43	20.6	1.3	48	2	US-08-750-128-2	Sequence 2, Appli
C 44	20.4	1.3	30	4	US-09-083-123-2	Sequence 2, Appli
C 45	20.4	1.3	30	4	US-09-083-123-8	Sequence 8, Appli
C 46	20.4	1.3	40	4	US-09-083-123-8	Sequence 10, Appli
C 47	20.4	1.3	41	3	US-08-930-589A-14	Sequence 14, Appli
C 48	20.4	1.3	41	4	US-09-599-781-14	Sequence 14, Appli
C 49	20.4	1.3	44	3	US-08-846-020A-5	Sequence 5, Appli
C 50	20.4	1.3	44	4	US-09-617-871-5	Sequence 5, Appli
C 51	20.4	1.3	47	5	PCT-US95-04439-7	Sequence 7, Appli
C 52	20.4	1.3	49	4	US-09-538-709-1141	Sequence 1141, Ap
C 53	20.4	1.3	50	4	US-09-165-264-3	Sequence 3, Appli
C 54	20.2	1.3	42	4	US-09-162-484-7	Sequence 7, Appli
C 55	20.2	1.3	46	1	US-08-171-389-85	Sequence 85, Appli
C 56	20.2	1.3	46	1	US-08-123-936-85	Sequence 85, Appli
C 57	20.2	1.3	46	2	US-08-475-228A-85	Sequence 85, Appli
C 58	20.2	1.3	46	3	US-08-482-080A-85	Sequence 85, Appli
C 59	20.2	1.3	46	4	US-09-354-947-85	Sequence 85, Appli
C 60	20.2	1.3	46	5	PCT-US93-12388-85	Sequence 85, Appli
C 61	20.2	1.3	47	2	US-08-975-902-48	Sequence 48, Appli
C 62	20.2	1.3	47	3	US-09-251-565-48	Sequence 48, Appli
C 63	20.2	1.3	48	4	US-09-198-956-26	Sequence 26, Appli
C 64	20.2	1.3	48	4	US-09-198-956A-32	Sequence 32, Appli
C 65	20.2	1.3	48	4	US-09-694-531-32	Sequence 32, Appli
C 66	20.2	1.3	48	4	US-09-670-141-26	Sequence 26, Appli
C 67	20.2	1.3	42	3	US-08-448-619-4	Sequence 4, Appli
C 68	20	1.3	42	4	US-09-162-484-7	Sequence 7, Appli
C 69	20	1.3	45	1	US-08-167-939A-14	Sequence 14, Appli
C 70	20	1.3	45	1	US-08-567-538-14	Sequence 14, Appli
C 71	20	1.3	45	1	US-09-561-490E-35	Sequence 35, Appli
C 72	20	1.3	50	1	US-08-672-571A-13	Sequence 13, Appli
C 73	19.6	1.2	42	4	US-08-933-219B-20	Sequence 20, Appli
C 74	19.6	1.2	42	4	US-09-321-481-20	Sequence 20, Appli
C 75	19.6	1.2	33	1	US-07-972-032-75	Sequence 75, Appli
C 76	19.4	1.2	33	1	US-07-723-002C-13	Sequence 13, Appli
C 77	19.4	1.2	39	4	US-09-325-256-27	Sequence 27, Appli
C 78	19.4	1.2	42	4	US-09-325-256-29	Sequence 29, Appli
C 79	19.4	1.2	43	4	US-09-042-353-395	Sequence 395, App
C 80	19.4	1.2	43	4	US-08-758-417A-245	Sequence 245, App
C 81	19.4	1.2	45	3	US-08-718-904-50	Sequence 50, Appli
C 82	19.4	1.2	45	5	PCT-US95-10973A-43	Sequence 43, Appli
C 83	19.4	1.2	46	4	US-09-390-867A-49	Sequence 49, Appli
C 84	19.4	1.2	46	4	US-08-026-143B-28	Sequence 49, Appli
C 85	19.2	1.2	36	5	PCT-US94-10621-28	Sequence 28, Appli
C 86	19.2	1.2	36	5	PCT-US94-10621-28	Sequence 28, Appli
C 87	19.2	1.2	42	1	US-07-803-633A-8	Sequence 8, Appli
C 88	19.2	1.2	42	2	US-08-525-772-18	Sequence 18, Appli
C 89	19.2	1.2	44	1	US-08-232-177A-385	Sequence 385, App
C 90	19.2	1.2	44	1	US-08-232-177A-385	Sequence 14, Appli
C 91	19.2	1.2	45	1	US-08-258-026A-14	Sequence 14, Appli
C 92	19.2	1.2	45	5	PCT-US95-07541-14	Sequence 14, Appli
C 93	19.2	1.2	46	4	US-08-795-876-8	Sequence 8, Appli
C 94	19.2	1.2	47	2	US-08-406-855A-10	Sequence 10, Appli
C 95	19.2	1.2	47	3	US-09-026-899-10	Sequence 10, Appli
C 96	19.2	1.2	47	4	US-09-688-415-15	Sequence 15, Appli
C 97	19.2	1.2	48	1	US-08-929-284A-11	Sequence 11, Appli
C 98	19.2	1.2	48	1	US-08-923-757-5	Sequence 5, Appli
C 99	19.2	1.2	48	1	US-08-177-502-5	Sequence 5, Appli
C 100	19.2	1.2	48	2	US-08-383-621-8	Sequence 8, Appli

C 101	19.2	1.2	48	3	US-08-459-906-8	Sequence 8, Appli	174	18.4	1.2	45	2	US-08-908-597A-31	Sequence 31, Appli
C 102	19.2	1.2	49	1	US-08-171-389-405	Sequence 405, App	175	18.4	1.2	45	2	US-09-236-385A-31	Sequence 31, Appli
C 103	19.2	1.2	49	1	US-08-123-936-405	Sequence 405, App	176	18.4	1.2	45	5	PCT-US96-06122-31	Sequence 9, Appli
C 104	19.2	1.2	49	1	US-08-475-228A-405	Sequence 405, App	177	18.4	1.2	47	1	US-08-334-177-9	Sequence 20, Appli
C 105	19.2	1.2	49	3	US-08-482-080A-405	Sequence 405, App	178	18.4	1.2	47	4	US-08-785-668-20	Sequence 21, Appli
C 106	19.2	1.2	49	4	US-09-354-947-405	Sequence 405, App	179	18.4	1.2	47	4	US-08-785-668-21	Sequence 9, Appli
C 107	19.2	1.2	49	5	PCT-US93-12388-405	Sequence 405, App	180	18.4	1.2	48	5	PCT-US94-06079-32	Sequence 32, Appli
C 108	19.2	1.2	50	1	US-08-644-729-12	Sequence 12, Appli	181	18.4	1.2	47	5	US-08-171-389-405	Sequence 405, App
C 109	19	1.2	19	1	US-08-748-591-16	Sequence 16, Appli	182	18.4	1.2	49	1	US-08-123-936-405	Sequence 405, App
C 110	19	1.2	19	1	US-08-748-591-21	Sequence 21, Appli	183	18.4	1.2	49	2	US-08-475-228A-405	Sequence 405, App
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C 112	19	1.2	19	4	US-09-102-491-9	Sequence 9, Appli	185	18.4	1.2	49	4	US-09-354-947-405	Sequence 930, App
C 113	19	1.2	30	4	US-09-813-781-11	Sequence 11, Appli	186	18.4	1.2	49	4	US-09-538-709-930	Sequence 1153, App
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C 115	19	1.2	36	4	US-09-301-199A-2	Sequence 2, Appli	188	18.4	1.2	49	5	PCT-US93-12388-405	Sequence 126, App
C 116	19	1.2	39	4	US-09-450-072-8	Sequence 8, Appli	189	18.4	1.2	50	1	US-08-171-389-126	Sequence 481, App
C 117	19	1.2	39	4	US-09-351-348-8	Sequence 8, Appli	190	18.4	1.2	50	1	US-08-171-389-181	Sequence 481, App
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C 119	19	1.2	41	4	US-08-327-874A-32	Sequence 32, Appli	192	18.4	1.2	50	1	US-08-475-228A-126	Sequence 481, App
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C 122	19	1.2	45	2	US-08-436-664-13	Sequence 13, Appli	195	18.4	1.2	50	3	US-08-482-080A-481	Sequence 481, App
C 123	19	1.2	45	3	US-09-135-642-13	Sequence 13, Appli	196	18.4	1.2	50	3	US-09-354-947-126	Sequence 481, App
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C 128	19	1.2	45	5	PCT-US95-04080-13	Sequence 13, Appli	201	18.4	1.2	50	5	PCT-US93-12388-481	Sequence 481, App
C 129	19	1.2	45	5	PCT-US95-04080-14	Sequence 14, Appli	202	18.4	1.2	50	5	PCT-US96-01473-6	Sequence 6, Appli
C 130	19	1.2	46	2	US-08-448-418-10	Sequence 10, Appli	203	18.2	1.2	24	5	PCT-US96-01473-6	Sequence 10, Appli
C 131	19	1.2	39	4	US-09-450-072-8	Sequence 8, Appli	204	18.2	1.2	31	4	US-09-516-357-10	Sequence 37, Appli
C 132	18.8	1.2	39	4	US-09-351-348-8	Sequence 8, Appli	205	18.2	1.2	35	4	US-08-254-733-7	Sequence 37, Appli
C 133	18.8	1.2	40	2	US-09-371-774-75	Sequence 75, Appli	206	18.2	1.2	35	4	US-08-840-059-1	Sequence 37, Appli
C 134	18.8	1.2	40	2	US-09-371-774-75	Sequence 75, Appli	207	18.2	1.2	39	2	US-08-596-387B-37	Sequence 37, Appli
C 135	18.8	1.2	44	2	US-08-403-852D-35	Sequence 35, Appli	208	18.2	1.2	39	5	PCT-US95-09816A-37	Sequence 37, Appli
C 136	18.8	1.2	44	3	US-08-510-646B-37	Sequence 35, Appli	209	18.2	1.2	39	5	US-08-850-049-114	Sequence 114, App
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C 139	18.8	1.2	47	4	US-09-371-774-56	Sequence 56, Appli	212	18.2	1.2	40	4	US-08-678-437-114	Sequence 114, App
C 140	18.8	1.2	48	1	US-08-629-600-2	Sequence 2, Appli	213	18.2	1.2	42	3	US-08-718-904-48	Sequence 48, Appli
C 141	18.8	1.2	48	4	US-09-076-761-2	Sequence 82, Appli	214	18.2	1.2	42	5	PCT-US95-10973A-41	Sequence 41, Appli
C 142	18.8	1.2	48	4	US-09-538-709-82	Sequence 1249, App	215	18.2	1.2	45	2	US-08-975-902-32	Sequence 32, Appli
C 143	18.8	1.2	48	4	US-09-538-709-1249	Sequence 989, App	216	18.2	1.2	45	3	US-09-251-565-32	Sequence 32, Appli
C 144	18.8	1.2	49	4	US-09-538-709-989	Sequence 1010, App	217	18.2	1.2	46	1	US-08-171-389-184	Sequence 184, App
C 145	18.8	1.2	49	4	US-09-538-709-1010	Sequence 1010, App	218	18.2	1.2	46	1	US-08-475-228A-184	Sequence 184, App
C 146	18.8	1.2	49	4	US-09-538-709-1158	Sequence 1158, App	219	18.2	1.2	46	2	US-08-475-228A-184	Sequence 184, App
C 147	18.8	1.2	50	4	US-09-455-679-17	Sequence 17, Appli	220	18.2	1.2	46	3	US-08-123-936-184	Sequence 184, App
C 148	18.6	1.2	25	1	US-08-374-144-3	Sequence 3, Appli	221	18.2	1.2	46	3	US-09-641-638-1171	Sequence 1171, App
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C 150	18.6	1.2	25	2	US-08-775-609-3	Sequence 3, Appli	223	18.2	1.2	46	5	US-09-354-947-184	Sequence 184, App
C 151	18.6	1.2	25	2	US-08-775-607-3	Sequence 3, Appli	224	18.2	1.2	47	4	PCT-US93-12388-184	Sequence 184, App
C 152	18.6	1.2	25	5	PCT-US93-06828-3	Sequence 3, Appli	225	18.2	1.2	47	4	US-09-641-638-1173	Sequence 1173, App
C 153	18.6	1.2	44	3	US-08-595-043A-45	Sequence 45, Appli	226	18.2	1.2	47	4	US-09-538-709-140	Sequence 140, App
C 154	18.6	1.2	45	3	US-08-444-818-249	Sequence 249, App	227	18.2	1.2	47	4	US-09-538-709-1307	Sequence 1307, App
C 155	18.6	1.2	45	4	US-09-561-490E-37	Sequence 37, Appli	228	18.2	1.2	48	3	US-08-755-587-196	Sequence 6, Appli
C 156	18.6	1.2	46	2	US-08-263-911-19	Sequence 19, Appli	229	18.2	1.2	48	3	US-09-000-016-6	Sequence 6, Appli
C 157	18.6	1.2	47	4	US-09-641-638-968	Sequence 68, App	230	18.2	1.2	48	4	US-09-514-340-6	Sequence 991, App
C 158	18.6	1.2	48	2	US-08-750-128-8	Sequence 8, Appli	231	18.2	1.2	48	4	US-09-538-709-991	Sequence 1006, App
C 159	18.6	1.2	49	1	US-07-972-032-74	Sequence 74, Appli	232	18.2	1.2	49	4	US-09-538-709-1008	Sequence 1006, App
C 160	18.6	1.2	49	1	US-08-642-255-87	Sequence 87, Appli	233	18.2	1.2	49	4	US-09-538-709-1060	Sequence 331, App
C 161	18.6	1.2	49	4	US-09-538-709-112	Sequence 112, App	234	18.2	1.2	50	1	US-08-171-389-331	Sequence 331, App
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C 164	18.6	1.2	50	1	US-08-171-389-463	Sequence 463, App	237	18.2	1.2	50	3	US-09-198-722A-90	Sequence 90, Appli
C 165	18.6	1.2	50	1	US-08-123-936-463	Sequence 463, App	238	18.2	1.2	50	4	US-09-354-947-331	Sequence 331, App
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C 168	18.6	1.2	50	4	US-08-785-668-23	Sequence 23, Appli	241	18.2	1.2	18	4	US-08-858-003-4	Sequence 4, Appli
C 169	18.6	1.2	50	4	US-09-354-947-463	Sequence 463, App	242	18	1.1	27	1	US-09-078-166-4	Sequence 4, Appli
C 170	18.6	1.2	50	5	PCT-US93-12388-463	Sequence 463, App	243	18	1.1	35	3	US-08-997-467-4	Sequence 4, Appli
C 171	18.4	1.2	43	2	US-08-465-473B-27	Sequence 27, Appli	244	18	1.1	35	3		
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C 249	18	1.1	36	5	PCT-US94-09700-28	Sequence 28, Appl	C 322	17.8	1.1	50	3	US-08-482-080A-537	Sequence 537, App
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C 253	18	1.1	42	1	US-07-803-633A-7	Sequence 7, Appl	C 326	17.6	1.1	27	4	US-08-976-427-20	Sequence 20, Appl
C 254	18	1.1	42	1	US-08-455-627-22	Sequence 22, Appl	C 327	17.6	1.1	32	4	US-09-648-312-20	Sequence 20, Appl
C 255	18	1.1	42	1	US-08-093-741-23	Sequence 23, Appl	C 328	17.6	1.1	34	1	US-08-049-264C-22	Sequence 22, Appl
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C 258	18	1.1	42	2	US-08-525-742-17	Sequence 17, Appl	C 331	17.6	1.1	34	5	PCT-US94-04310-22	Sequence 22, Appl
C 259	18	1.1	42	2	US-08-560-098A-28	Sequence 28, Appl	C 332	17.6	1.1	36	2	US-08-435-350-3	Sequence 3, Appl
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C 262	18	1.1	43	3	US-09-098-287A-11	Sequence 11, Appl	C 335	17.6	1.1	36	4	US-08-327-874A-28	Sequence 2, Appl
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C 264	18	1.1	45	4	PCT-US94-14106-18	Sequence 18, Appl	C 337	17.6	1.1	40	4	US-08-848-760B-19	Sequence 19, Appl
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C 267	18	1.1	47	4	US-09-641-638-1074	Sequence 1074, Ap	C 340	17.6	1.1	41	2	US-08-475-228A-243	Sequence 243, App
C 268	18	1.1	48	1	US-08-171-389-203	Sequence 203, App	C 341	17.6	1.1	41	3	US-08-482-080A-243	Sequence 243, App
C 269	18	1.1	48	1	US-08-123-936-203	Sequence 203, App	C 342	17.6	1.1	41	3	US-09-112-334-1	Sequence 1, Appl
C 270	18	1.1	48	2	US-08-475-228A-203	Sequence 203, App	C 343	17.6	1.1	41	4	US-09-354-947-543	Sequence 243, App
C 271	18	1.1	48	3	US-08-482-080A-203	Sequence 203, App	C 344	17.6	1.1	41	4	PCT-US93-12388-243	Sequence 243, App
C 272	18	1.1	48	4	US-09-543-004-37	Sequence 37, Appl	C 345	17.6	1.1	42	3	US-09-136-421-7	Sequence 7, Appl
C 273	18	1.1	48	4	US-09-425-638A-37	Sequence 37, Appl	C 346	17.6	1.1	42	3	US-08-171-389-63	Sequence 63, Appl
C 274	18	1.1	48	4	US-09-543-004-37	Sequence 37, Appl	C 347	17.6	1.1	44	1	US-08-123-936-63	Sequence 63, Appl
C 275	18	1.1	48	5	PCT-US93-12388-203	Sequence 203, App	C 348	17.6	1.1	44	2	US-08-475-228A-63	Sequence 63, Appl
C 276	18	1.1	48	5	PCT-US94-06079-33	Sequence 33, Appl	C 349	17.6	1.1	44	2	US-08-860-882A-7	Sequence 7, Appl
C 277	18	1.1	48	5	US-09-538-709-955	Sequence 955, App	C 350	17.6	1.1	44	3	US-08-482-080A-63	Sequence 63, Appl
C 278	18	1.1	49	4	US-09-538-709-978	Sequence 978, App	C 351	17.6	1.1	44	4	US-09-354-947-63	Sequence 63, Appl
C 279	18	1.1	49	4	US-08-171-389-474	Sequence 474, App	C 352	17.6	1.1	44	4	PCT-US93-12388-63	Sequence 63, Appl
C 280	18	1.1	50	1	US-08-171-389-474	Sequence 474, App	C 353	17.6	1.1	45	1	US-07-601-094-6	Sequence 6, Appl
C 281	18	1.1	50	1	US-08-222-177A-169	Sequence 169, App	C 354	17.6	1.1	45	1	US-08-158-067-22	Sequence 22, Appl
C 282	18	1.1	50	1	US-08-123-936-474	Sequence 474, App	C 355	17.6	1.1	45	2	US-08-273-146-20	Sequence 20, Appl
C 283	18	1.1	50	1	US-08-475-228A-374	Sequence 374, App	C 356	17.6	1.1	45	2	US-08-860-882A-7	Sequence 7, Appl
C 284	18	1.1	50	1	US-08-642-255-88	Sequence 88, Appl	C 357	17.6	1.1	45	2	PCT-US96-07795-22	Sequence 22, Appl
C 285	18	1.1	50	2	US-08-475-228A-474	Sequence 474, App	C 358	17.6	1.1	46	5	US-08-249-112-5	Sequence 5, Appl
C 286	18	1.1	50	2	US-08-540-804-33	Sequence 33, Appl	C 359	17.6	1.1	46	5	PCT-US95-06556-5	Sequence 5, Appl
C 287	18	1.1	50	2	US-08-218-265-33	Sequence 33, Appl	C 360	17.6	1.1	46	5	US-09-338-907-269	Sequence 269, App
C 288	18	1.1	50	3	US-08-482-080A-374	Sequence 374, App	C 361	17.6	1.1	47	4	US-09-147-119-3	Sequence 7, Appl
C 289	18	1.1	50	3	US-08-521-872-33	Sequence 33, Appl	C 362	17.6	1.1	47	4	US-09-364-707A-7	Sequence 7, Appl
C 290	18	1.1	50	3	US-08-590-399-33	Sequence 33, Appl	C 363	17.6	1.1	47	4	US-09-641-638-718	Sequence 718, App
C 291	18	1.1	50	4	US-09-007-005-5	Sequence 5, Appl	C 364	17.6	1.1	47	4	US-08-151-574-14	Sequence 14, Appl
C 292	18	1.1	50	4	US-09-244-796-5	Sequence 5, Appl	C 365	17.6	1.1	47	4	US-08-273-146-42	Sequence 42, Appl
C 293	18	1.1	50	4	US-09-434-131A-14	Sequence 14, Appl	C 366	17.6	1.1	48	1	US-08-419-448-14	Sequence 14, Appl
C 294	18	1.1	50	4	US-09-354-947-374	Sequence 374, App	C 367	17.6	1.1	48	2	US-09-354-947-374	Sequence 374, App
C 295	18	1.1	50	4	PCT-US93-12388-374	Sequence 374, App	C 368	17.6	1.1	48	2	US-08-171-389-262	Sequence 262, App
C 296	18	1.1	50	5	PCT-US93-12388-474	Sequence 474, App	C 369	17.6	1.1	48	2	US-08-123-936-524	Sequence 524, App
C 297	18	1.1	50	5	US-09-277-078-24	Sequence 24, App	C 370	17.6	1.1	48	2	US-08-475-228A-262	Sequence 262, App
C 298	18	1.1	50	5	US-09-230-180-10	Sequence 10, Appl	C 371	17.6	1.1	48	2	US-08-482-080A-262	Sequence 262, App
C 299	18	1.1	50	5	US-08-973-005A-6	Sequence 6, Appl	C 372	17.6	1.1	49	1	US-08-479-723A-22	Sequence 22, Appl
C 300	18	1.1	50	5	US-08-171-389-291	Sequence 291, App	C 373	17.6	1.1	49	1	US-08-475-228A-591	Sequence 591, App
C 301	18	1.1	50	5	US-08-123-936-291	Sequence 291, App	C 374	17.6	1.1	49	1	US-08-793-170-17	Sequence 17, Appl
C 302	18	1.1	50	5	US-08-587-333-15	Sequence 15, Appl	C 375	17.6	1.1	49	1	US-08-482-080A-524	Sequence 524, App
C 303	18	1.1	50	5	US-08-475-228A-291	Sequence 291, App	C 376	17.6	1.1	50	1	US-08-899-873-17	Sequence 17, Appl
C 304	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 377	17.6	1.1	50	3	US-08-782-480-78	Sequence 78, Appl
C 305	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 378	17.6	1.1	50	3	US-09-334-765A-17	Sequence 17, Appl
C 306	18	1.1	50	5	US-08-482-080A-291	Sequence 291, App	C 379	17.6	1.1	50	4	US-08-954-211-78	Sequence 78, Appl
C 307	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 380	17.6	1.1	50	4		
C 308	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 381	17.6	1.1	50	4		
C 309	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 382	17.6	1.1	50	4		
C 310	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 383	17.6	1.1	50	4		
C 311	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 384	17.6	1.1	50	4		
C 312	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 385	17.6	1.1	50	4		
C 313	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 386	17.6	1.1	50	4		
C 314	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 387	17.6	1.1	50	4		
C 315	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 388	17.6	1.1	50	4		
C 316	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 389	17.6	1.1	50	4		
C 317	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 390	17.6	1.1	50	4		
C 318	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 391	17.6	1.1	50	4		
C 319	18	1.1	50	5	US-08-501-253A-15	Sequence 15, App	C 392	17.6	1.1	50	4		

393	17.6	1.1	50	US-09-356-575E-17	Sequence 17, Appl	466	17.2	1.1	24	US-09-387-699-12	Sequence 12, Appl
394	17.6	1.1	50	US-09-333-820-17	Sequence 17, Appl	467	17.2	1.1	24	US-09-035-183-31	Sequence 31, Appl
395	17.6	1.1	50	US-09-358-036-39	Sequence 39, Appl	468	17.2	1.1	24	US-09-641-2598-12	Sequence 12, Appl
396	17.6	1.1	50	US-09-354-947-524	Sequence 524, App	469	17.2	1.1	30	US-09-032-919-21	Sequence 21, Appl
397	17.6	1.1	50	US-09-354-947-591	Sequence 591, Appl	470	17.2	1.1	30	US-09-674-460-2	Sequence 2, Appl
398	17.6	1.1	50	US-09-005-1674-78	Sequence 78, Appl	471	17.2	1.1	35	US-09-194-613-7	Sequence 7, Appl
399	17.6	1.1	50	US-09-449-218D-24	Sequence 24, Appl	472	17.2	1.1	36	US-09-423-439-39	Sequence 39, Appl
400	17.6	1.1	50	US-09-097-239-39	Sequence 39, Appl	473	17.2	1.1	37	US-08-428-616A-3	Sequence 3, Appl
401	17.6	1.1	50	US-09-176-741B-78	Sequence 78, Appl	474	17.2	1.1	38	US-08-966-241-6	Sequence 6, Appl
402	17.6	1.1	50	US-09-097-239-39	Sequence 39, Appl	475	17.2	1.1	39	US-08-966-241-6	Sequence 5, Appl
403	17.6	1.1	50	PCT-US91-03540A-5	Sequence 524, App	476	17.2	1.1	39	US-09-103-866-5	Sequence 16, Appl
404	17.6	1.1	50	PCT-US93-12388-524	Sequence 591, App	477	17.2	1.1	39	US-07-612-673-16	Sequence 16, Appl
405	17.6	1.1	50	5168050-14	Patent No. 5168050	478	17.2	1.1	40	US-08-030-731A-26	Sequence 26, Appl
406	17.4	1.1	26	US-09-301-199A-1	Sequence 1, Appl	479	17.2	1.1	40	US-08-539-666-17	Sequence 17, Appl
407	17.4	1.1	27	US-08-208-486-80	Sequence 80, Appl	480	17.2	1.1	41	US-08-453-956-22	Sequence 22, Appl
408	17.4	1.1	27	US-08-208-486-81	Sequence 81, Appl	481	17.2	1.1	41	US-08-086-631-22	Sequence 22, Appl
409	17.4	1.1	28	US-08-846-020A-2	Sequence 2, Appl	482	17.2	1.1	41	US-08-452-930-22	Sequence 22, Appl
410	17.4	1.1	28	US-09-617-871-2	Sequence 2, Appl	483	17.2	1.1	41	PCT-US93-08174-22	Sequence 11, Appl
411	17.4	1.1	33	5256770-5	Patent No. 5256770	484	17.2	1.1	42	US-08-124-981A-11	Sequence 11, Appl
412	17.4	1.1	35	US-08-468-220-8	Sequence 8, Appl	485	17.2	1.1	42	US-08-827-974-1	Sequence 1, Appl
413	17.4	1.1	35	US-08-468-698-8	Sequence 8, Appl	486	17.2	1.1	42	US-09-037-190-9	Sequence 9, Appl
414	17.4	1.1	35	US-08-194-664A-8	Sequence 8, Appl	487	17.2	1.1	42	US-09-037-190-9	Sequence 9, Appl
415	17.4	1.1	35	PCT-US94-01553A-8	Sequence 8, Appl	488	17.2	1.1	42	US-09-037-190-9	Sequence 9, Appl
416	17.4	1.1	35	PCT-US95-10426-8	Sequence 8, Appl	489	17.2	1.1	42	US-09-037-190-9	Sequence 9, Appl
417	17.4	1.1	36	US-08-334-847-876	Sequence 876, App	490	17.2	1.1	42	US-08-260-174-9	Sequence 9, Appl
418	17.4	1.1	36	US-08-746-883-9	Sequence 9, Appl	491	17.2	1.1	42	US-08-910-722-5	Sequence 5, Appl
419	17.4	1.1	38	US-08-690-102A-12	Sequence 12, Appl	492	17.2	1.1	42	US-08-338-188A-9	Sequence 9, Appl
420	17.4	1.1	38	US-09-127-902-12	Sequence 12, Appl	493	17.2	1.1	42	US-09-233-346-9	Sequence 9, Appl
421	17.4	1.1	38	US-09-155-107-24	Sequence 24, Appl	494	17.2	1.1	42	US-09-037-192-9	Sequence 9, Appl
422	17.4	1.1	38	PCT-US95-09641-12	Sequence 12, Appl	495	17.2	1.1	42	PCT-US95-11405-18	Sequence 18, Appl
423	17.4	1.1	42	US-08-261-660A-28	Sequence 28, Appl	496	17.2	1.1	42	5182196-21	Patent No. 5182196
424	17.4	1.1	42	US-08-889-502-35	Sequence 35, Appl	497	17.2	1.1	43	US-08-253-877C-34	Sequence 34, Appl
425	17.4	1.1	42	US-09-280-909A-28	Sequence 28, Appl	498	17.2	1.1	43	US-08-452-164A-34	Sequence 34, Appl
426	17.4	1.1	42	PCT-US94-06931-28	Sequence 28, Appl	499	17.2	1.1	44	US-08-634-060-28	Sequence 28, Appl
427	17.4	1.1	44	US-08-171-389-152	Sequence 152, App	500	17.2	1.1	44	US-08-487-761-1	Sequence 1, Appl
428	17.4	1.1	44	US-08-123-936-152	Sequence 152, App	501	17.2	1.1	45	US-09-517-871-15	Sequence 15, Appl
429	17.4	1.1	44	US-08-475-228A-152	Sequence 152, App	502	17.2	1.1	45	PCT-US94-14106-15	Sequence 15, Appl
430	17.4	1.1	44	US-08-482-080A-152	Sequence 152, App	503	17.2	1.1	46	US-08-123-936-183	Sequence 183, App
431	17.4	1.1	44	US-09-354-947-152	Sequence 152, App	504	17.2	1.1	46	US-08-123-936-183	Sequence 183, App
432	17.4	1.1	44	PCT-US93-12388-152	Sequence 152, App	505	17.2	1.1	46	US-08-475-228A-183	Sequence 183, App
433	17.4	1.1	45	US-07-885-689A-2	Sequence 2, Appl	506	17.2	1.1	46	US-08-482-080A-183	Sequence 183, App
434	17.4	1.1	45	US-08-171-389-199	Sequence 199, App	507	17.2	1.1	46	PCT-US93-12388-183	Sequence 183, App
435	17.4	1.1	45	US-08-123-936-199	Sequence 199, App	508	17.2	1.1	46	US-09-438-016-6	Sequence 6, Appl
436	17.4	1.1	45	US-08-475-228A-199	Sequence 199, App	509	17.2	1.1	47	US-09-641-638-786	Sequence 786, App
437	17.4	1.1	45	US-08-482-080A-199	Sequence 199, App	510	17.2	1.1	47	US-09-641-638-866	Sequence 866, App
438	17.4	1.1	45	US-09-199-737-7	Sequence 7, Appl	512	17.2	1.1	47	US-09-641-638-1111	Sequence 1111, App
439	17.4	1.1	45	US-09-058-333A-7	Sequence 199, App	513	17.2	1.1	47	US-09-641-638-1197	Sequence 1197, App
440	17.4	1.1	45	US-09-354-947-199	Sequence 199, App	514	17.2	1.1	47	US-09-641-638-1276	Sequence 1276, App
441	17.4	1.1	45	PCT-US94-12388-199	Sequence 43, Appl	515	17.2	1.1	48	US-09-641-638-1276	Sequence 14, Appl
442	17.4	1.1	46	PCT-US94-06079-43	Sequence 70, Appl	516	17.2	1.1	48	US-08-929-856-14	Sequence 16, Appl
443	17.4	1.1	46	US-08-235-503B-70	Sequence 70, Appl	518	17.2	1.1	48	US-08-929-856-16	Sequence 16, Appl
444	17.4	1.1	46	PCT-US95-05265-70	Sequence 13, Appl	519	17.2	1.1	48	US-08-929-856-16	Sequence 16, Appl
445	17.4	1.1	47	US-08-171-389-13	Sequence 13, Appl	520	17.2	1.1	48	US-08-929-856-18	Sequence 18, Appl
446	17.4	1.1	47	US-08-123-936-13	Sequence 13, Appl	521	17.2	1.1	48	US-09-203-623-31	Sequence 31, Appl
447	17.4	1.1	47	US-08-475-228A-13	Sequence 13, Appl	522	17.2	1.1	49	US-08-086-634-10	Sequence 10, Appl
448	17.4	1.1	47	US-08-482-080A-13	Sequence 13, Appl	523	17.2	1.1	49	US-09-538-709-92	Sequence 92, Appl
449	17.4	1.1	47	US-09-354-947-13	Sequence 1078, App	524	17.2	1.1	49	US-09-538-709-1259	Sequence 1259, App
450	17.4	1.1	47	US-09-641-638-1078	Sequence 1186, App	525	17.2	1.1	50	US-08-171-389-112	Sequence 112, App
451	17.4	1.1	47	US-09-641-638-1186	Sequence 13, Appl	526	17.2	1.1	50	US-08-171-389-331	Sequence 331, App
452	17.4	1.1	48	PCT-US93-12388-13	Sequence 8, Appl	527	17.2	1.1	50	US-08-123-936-112	Sequence 112, App
453	17.4	1.1	48	US-08-750-128-6	Sequence 197, App	528	17.2	1.1	50	US-08-123-936-331	Sequence 331, App
454	17.4	1.1	49	US-08-755-587-197	Sequence 27, Appl	529	17.2	1.1	50	US-08-475-228A-112	Sequence 112, App
455	17.4	1.1	49	US-08-261-660A-27	Sequence 27, Appl	530	17.2	1.1	50	US-08-482-080A-112	Sequence 331, App
456	17.4	1.1	49	US-09-280-909A-27	Sequence 27, Appl	531	17.2	1.1	50	US-08-482-080A-331	Sequence 331, App
457	17.4	1.1	49	PCT-US94-06931-27	Sequence 11, Appl	532	17.2	1.1	50	US-09-455-679-16	Sequence 16, Appl
458	17.4	1.1	50	US-08-357-399-11	Sequence 11, Appl	533	17.2	1.1	50	US-09-455-679-16	Sequence 112, App
459	17.4	1.1	50	US-08-357-666-11	Sequence 11, Appl	534	17.2	1.1	50	US-09-354-947-112	Sequence 112, App
460	17.4	1.1	50	US-08-206-175-11	Sequence 11, Appl	535	17.2	1.1	50	US-09-354-947-331	Sequence 331, App
461	17.4	1.1	50	US-09-025-769B-117	Sequence 5, Appl	536	17.2	1.1	50	PCT-US93-12388-112	Sequence 112, App
462	17.4	1.1	50	PCT-US91-03540A-5	Patent No. 5168050	537	17.2	1.1	50	PCT-US93-12388-331	Sequence 331, App
463	17.4	1.1	50	5168050-14	Patent No. 5168050	538	17.2	1.1	50		
464	17.2	1.1	24	US-08-742-755A-31	Sequence 31, Appl						
465	17.2	1.1	24	US-09-226-683-31	Sequence 31, Appl						

539	17	1.1	25	4	US-09-292-036-5	Sequence 5, Appl1	C 612	17	1.1	50	4	US-09-128-354-17	Sequence 17, Appl1
C 540	17	1.1	29	1	US-08-005-283-12	Sequence 12, Appl1	C 613	17	1.1	50	4	US-09-354-947-364	Sequence 364, App
541	17	1.1	33	3	US-08-801-154-3	Sequence 3, Appl1	C 614	17	1.1	50	4	US-09-354-947-497	Sequence 497, App
542	17	1.1	33	3	US-08-873-709-12	Sequence 12, Appl1	C 615	17	1.1	50	4	US-09-930-181-1	Sequence 24, Appl1
C 543	17	1.1	33	3	US-08-930-589A-15	Sequence 15, Appl1	C 616	17	1.1	50	4	US-09-328-328A-22	Sequence 22, Appl1
544	17	1.1	33	3	US-09-437-034B-7	Sequence 7, Appl1	C 617	17	1.1	50	4	US-09-296-938-1	Sequence 1077, App
545	17	1.1	33	4	US-09-255-464B-8	Sequence 8, Appl1	C 618	17	1.1	50	5	US-09-538-709-1077	Sequence 364, App
C 547	17	1.1	33	5	US-09-599-781-15	Sequence 15, Appl1	C 619	17	1.1	29	5	PCT-US93-12388-364	Sequence 1077, App
548	17	1.1	33	5	PCT-US94-06331A-51	Sequence 51, Appl1	C 620	16.8	1.1	29	1	US-08-586-272-17	Sequence 17, Appl1
C 549	17	1.1	35	3	US-08-463-903-40	Sequence 40, Appl1	C 621	16.8	1.1	29	3	US-08-982-969-17	Sequence 17, Appl1
C 550	17	1.1	35	3	US-08-810-009-65	Sequence 65, Appl1	C 622	16.8	1.1	30	1	US-08-318-193-64	Sequence 17, Appl1
C 551	17	1.1	35	3	US-07-935-695-40	Sequence 40, Appl1	C 623	16.8	1.1	30	1	US-08-543-630-1	Sequence 17, Appl1
C 552	17	1.1	37	3	US-09-143-270-8	Sequence 8, Appl1	C 624	16.8	1.1	30	2	US-08-888-366-28	Sequence 28, Appl1
C 553	17	1.1	37	3	US-08-873-709-11	Sequence 11, Appl1	C 625	16.8	1.1	30	2	US-08-460-900C-49	Sequence 49, Appl1
554	17	1.1	37	4	US-07-875-790B-10	Sequence 10, Appl1	C 626	16.8	1.1	30	4	US-08-674-509B-19	Sequence 19, Appl1
C 555	17	1.1	37	4	US-09-437-034B-6	Sequence 6, Appl1	C 627	16.8	1.1	30	4	US-08-954-698-19	Sequence 19, Appl1
C 556	17	1.1	37	4	US-09-255-464B-7	Sequence 7, Appl1	C 628	16.8	1.1	30	4	US-08-589-109A-13	Sequence 13, Appl1
C 557	17	1.1	37	4	US-09-450-083-8	Sequence 8, Appl1	C 629	16.8	1.1	33	1	US-08-137-117D-75	Sequence 75, Appl1
C 558	17	1.1	37	4	US-09-417-418-2	Sequence 2, Appl1	C 630	16.8	1.1	33	1	US-08-436-717-75	Sequence 75, Appl1
559	17	1.1	38	1	US-08-707-793A-10	Sequence 10, Appl1	C 631	16.8	1.1	33	1	US-08-436-717-75	Sequence 75, Appl1
C 560	17	1.1	38	1	US-08-707-792A-10	Sequence 10, Appl1	C 632	16.8	1.1	33	1	US-08-436-717-75	Sequence 75, Appl1
C 561	17	1.1	38	2	US-08-124-981A-21	Sequence 21, Appl1	C 633	16.8	1.1	33	4	US-08-753-247-3	Sequence 75, Appl1
C 562	17	1.1	38	3	US-09-037-190-19	Sequence 19, Appl1	C 634	16.8	1.1	33	4	US-08-685-871-15	Sequence 3, Appl1
C 563	17	1.1	38	3	US-09-037-192-19	Sequence 19, Appl1	C 635	16.8	1.1	35	3	US-08-685-871-20	Sequence 20, Appl1
C 564	17	1.1	38	3	US-09-037-192-19	Sequence 19, Appl1	C 636	16.8	1.1	35	3	US-08-685-871-24	Sequence 24, Appl1
C 565	17	1.1	38	4	US-09-049-691-19	Sequence 19, Appl1	C 637	16.8	1.1	35	3	US-08-685-871-28	Sequence 28, Appl1
C 566	17	1.1	38	4	US-08-260-174-19	Sequence 19, Appl1	C 638	16.8	1.1	35	3	US-08-685-871-34	Sequence 34, Appl1
C 567	17	1.1	38	4	US-09-338-128A-19	Sequence 19, Appl1	C 639	16.8	1.1	35	3	US-08-685-871-36	Sequence 36, Appl1
C 568	17	1.1	38	4	US-09-232-346-19	Sequence 19, Appl1	C 640	16.8	1.1	35	3	US-08-685-871-38	Sequence 38, Appl1
C 569	17	1.1	38	4	US-09-037-192-19	Sequence 19, Appl1	C 641	16.8	1.1	35	3	US-08-685-871-46	Sequence 46, Appl1
C 570	17	1.1	39	4	US-08-556-978B-64	Sequence 64, Appl1	C 642	16.8	1.1	35	3	US-08-455-627-7	Sequence 46, Appl1
C 571	17	1.1	39	4	US-08-425-684-128	Sequence 64, Appl1	C 643	16.8	1.1	36	1	US-08-435-350-3	Sequence 7, Appl1
C 572	17	1.1	40	2	US-08-675-502-128	Sequence 128, App	C 644	16.8	1.1	36	1	US-08-689-856-7	Sequence 7, Appl1
C 573	17	1.1	40	2	US-09-546-483-1	Sequence 1, Appl1	C 645	16.8	1.1	36	2	US-08-689-856-7	Sequence 7, Appl1
C 574	17	1.1	40	4	US-09-823-177-1	Sequence 1, Appl1	C 646	16.8	1.1	36	2	US-08-428-733A-10	Sequence 6, Appl1
C 575	17	1.1	40	4	US-08-481-003-9	Sequence 9, Appl1	C 647	16.8	1.1	37	1	US-08-428-733A-15	Sequence 6, Appl1
C 576	17	1.1	41	1	US-08-481-003-9	Sequence 9, Appl1	C 648	16.8	1.1	37	1	US-09-099-307-20	Sequence 20, Appl1
C 577	17	1.1	41	1	US-08-481-003-9	Sequence 9, Appl1	C 649	16.8	1.1	39	1	US-08-390-878-3	Sequence 3, Appl1
C 578	17	1.1	42	1	US-08-468-036-30	Sequence 30, Appl1	C 650	16.8	1.1	40	1	US-08-850-049-126	Sequence 126, App
C 579	17	1.1	42	2	US-08-376-843-30	Sequence 12, Appl1	C 651	16.8	1.1	40	2	US-08-050-478-126	Sequence 126, App
C 580	17	1.1	42	2	US-09-459-958-12	Sequence 12, Appl1	C 652	16.8	1.1	40	2	US-09-414-117-126	Sequence 126, App
C 581	17	1.1	43	4	US-09-387-300-35	Sequence 35, Appl1	C 653	16.8	1.1	40	4	US-09-678-437-126	Sequence 126, App
C 582	17	1.1	43	4	US-08-481-003-8	Sequence 8, Appl1	C 654	16.8	1.1	41	2	US-08-372-190-57	Sequence 57, Appl1
C 583	17	1.1	45	1	US-08-997-918-22	Sequence 22, Appl1	C 655	16.8	1.1	41	2	US-08-438-190A-57	Sequence 57, Appl1
C 584	17	1.1	45	3	US-09-605-785-784	Sequence 784, App	C 656	16.8	1.1	41	2	US-09-214-151-5	Sequence 57, Appl1
C 585	17	1.1	45	4	US-07-854-596B-10	Sequence 10, Appl1	C 657	16.8	1.1	41	4	US-09-556-111-57	Sequence 57, Appl1
C 586	17	1.1	46	1	US-08-171-389-175	Sequence 175, App	C 658	16.8	1.1	41	4	US-08-874-825-6	Sequence 6, Appl1
C 587	17	1.1	46	1	US-08-123-936-175	Sequence 175, App	C 659	16.8	1.1	42	3	US-08-663-824-6	Sequence 6, Appl1
588	17	1.1	46	1	US-08-475-228A-175	Sequence 175, App	C 660	16.8	1.1	42	3	US-08-663-824-6	Sequence 6, Appl1
589	17	1.1	46	2	US-07-916-098A-60	Sequence 60, Appl1	C 661	16.8	1.1	42	3	US-08-448-619-5	Sequence 263, App
590	17	1.1	46	2	US-08-354-947-175	Sequence 175, App	C 662	16.8	1.1	42	4	US-07-931-473B-263	Sequence 263, App
591	17	1.1	46	3	US-08-482-080A-175	Sequence 175, App	C 663	16.8	1.1	43	1	US-07-714-131C-263	Sequence 263, App
592	17	1.1	46	3	US-09-354-947-175	Sequence 175, App	C 664	16.8	1.1	43	1	US-08-412-110-263	Sequence 263, App
593	17	1.1	46	4	PCT-US93-12388-175	Sequence 1190, App	C 665	16.8	1.1	43	1	US-08-469-609A-263	Sequence 263, App
C 594	17	1.1	46	5	US-09-641-638-1190	Sequence 1190, App	C 666	16.8	1.1	43	2	US-08-726-807B-23	Sequence 23, Appl1
C 595	17	1.1	47	4	US-08-828-533-37	Sequence 37, Appl1	C 667	16.8	1.1	43	3	US-09-258-367-23	Sequence 23, Appl1
596	17	1.1	48	4	US-07-994-469A-26	Sequence 26, Appl1	C 668	16.8	1.1	43	3	US-09-546-550-23	Sequence 23, Appl1
597	17	1.1	49	1	US-09-538-709-929	Sequence 929, App	C 669	16.8	1.1	43	3	US-09-431-349C-23	Sequence 23, Appl1
598	17	1.1	49	4	US-08-123-936-364	Sequence 364, App	C 670	16.8	1.1	43	3	US-08-982-232-15	Sequence 15, Appl1
599	17	1.1	49	4	US-08-475-228A-364	Sequence 364, App	C 671	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 600	17	1.1	49	4	US-08-475-228A-364	Sequence 364, App	C 672	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 601	17	1.1	50	1	US-08-123-936-364	Sequence 364, App	C 673	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 602	17	1.1	50	1	US-08-123-936-364	Sequence 364, App	C 674	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 603	17	1.1	50	1	US-08-123-936-364	Sequence 364, App	C 675	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 604	17	1.1	50	1	US-08-123-936-364	Sequence 364, App	C 676	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 605	17	1.1	50	1	US-08-123-936-364	Sequence 364, App	C 677	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 606	17	1.1	50	1	US-08-123-936-364	Sequence 364, App	C 678	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 607	17	1.1	50	1	US-08-123-936-364	Sequence 364, App	C 679	16.8	1.1	44	2	US-08-982-232-15	Sequence 15, Appl1
C 608	17	1.1	50	2	US-08-475-228A-364	Sequence 364, App	C 680	16.8	1.1	44	3	US-09-219-849-24	Sequence 24, Appl1
C 609	17	1.1	50	3	US-08-482-080A-364	Sequence 364, App	C 681	16.8	1.1	45	1	US-08-171-389-84	Sequence 84, Appl1
C 610	17	1.1	50	3	US-08-482-080A-364	Sequence 364, App	C 682	16.8	1.1	45	1	US-08-449-207-3	Sequence 3, Appl1
C 611	17	1.1	50	3	US-08-482-080A-364	Sequence 364, App	C 683	16.8	1.1	45	1	US-08-449-207-3	Sequence 3, Appl1
C 612	17	1.1	50	3	US-08-482-080A-364	Sequence 364, App	C 684	16.8	1.1	45	1	US-08-449-207-3	Sequence 3, Appl1

685	16.8	1.1	45	1	US-08-123-936-84	Sequence 84, Appl	758	16.6	1.1	32	2	US-08-267-803B-46	Sequence 46, Appl
686	16.8	1.1	45	2	US-08-039-198B-3	Sequence 3, Appl	C 759	16.6	1.1	32	4	US-08-976-427-18	Sequence 18, Appl
687	16.8	1.1	45	2	US-08-475-228A-84	Sequence 84, Appl	C 760	16.6	1.1	32	3	US-09-648-312-18	Sequence 18, Appl
688	16.8	1.1	45	2	US-08-680-326-65	Sequence 65, Appl	C 761	16.6	1.1	33	3	US-09-026-673-5	Sequence 5, Appl
689	16.8	1.1	45	2	US-08-350-260A-548	Sequence 548, App	C 762	16.6	1.1	33	4	US-08-974-549A-616	Sequence 616, App
690	16.8	1.1	45	2	US-08-982-232-1	Sequence 1, Appl	C 763	16.6	1.1	33	4	US-09-527-236A-13	Sequence 13, Appl
691	16.8	1.1	45	3	US-08-482-080A-84	Sequence 84, Appl	C 764	16.6	1.1	33	4	US-09-480-142-5	Sequence 5, Appl
692	16.8	1.1	45	3	US-08-977-918-23	Sequence 23, Appl	C 765	16.6	1.1	34	4	US-08-974-549A-482	Sequence 482, App
693	16.8	1.1	45	3	US-09-371-710-40	Sequence 40, Appl	C 766	16.6	1.1	34	4	US-09-529-279-46	Sequence 46, Appl
694	16.8	1.1	45	4	US-09-648-386-40	Sequence 84, Appl	C 767	16.6	1.1	36	5	PCT-US93-0849-7	Sequence 7, Appl
695	16.8	1.1	45	4	US-09-354-947-84	Sequence 56, Appl	C 768	16.6	1.1	36	5	PCT-US93-0849-7	Sequence 7, Appl
696	16.8	1.1	45	4	US-09-311-626B-56	Sequence 84, Appl	C 769	16.6	1.1	38	4	US-07-638-512-2	Sequence 326, App
697	16.8	1.1	45	5	PCT-US93-1238B-84	Sequence 14, Appl	C 770	16.6	1.1	38	4	US-09-042-353-326	Sequence 174, App
698	16.8	1.1	45	5	PCT-US94-14106-13	Sequence 16, Appl	C 771	16.6	1.1	39	5	US-08-758-417A-174	Sequence 3, Appl
699	16.8	1.1	45	5	PCT-US94-14106-16	Sequence 14, Appl	C 772	16.6	1.1	39	5	PCT-US93-05240-3	Patent No. 5240848
700	16.8	1.1	46	4	US-09-065-104-14	Sequence 21, Appl	C 773	16.6	1.1	39	6	5240848-9	Patent No. 5240848
701	16.8	1.1	46	4	US-09-198-603C-21	Sequence 9, Appl	C 774	16.6	1.1	39	6	5240848-9	Patent No. 5240848
702	16.8	1.1	46	4	US-08-795-876-9	Sequence 28, Appl	C 775	16.6	1.1	40	1	US-07-949-488A-6	Sequence 6, Appl
703	16.8	1.1	47	4	US-09-039-982A-28	Sequence 28, Appl	C 776	16.6	1.1	40	1	US-08-199-507B-15	Sequence 15, Appl
704	16.8	1.1	47	4	US-09-039-982A-29	Sequence 29, Appl	C 777	16.6	1.1	40	1	US-08-199-507B-27	Sequence 27, Appl
705	16.8	1.1	47	4	US-09-039-641-28	Sequence 28, Appl	C 778	16.6	1.1	40	1	US-08-199-507B-30	Sequence 30, Appl
706	16.8	1.1	47	4	US-09-039-641-29	Sequence 28, Appl	C 779	16.6	1.1	40	1	US-08-441-828-15	Sequence 15, Appl
707	16.8	1.1	47	4	US-09-039-641-29	Sequence 28, Appl	C 780	16.6	1.1	40	1	US-08-441-828-27	Sequence 27, Appl
708	16.8	1.1	47	4	US-09-039-762A-28	Sequence 29, Appl	C 781	16.6	1.1	40	1	US-08-441-828-30	Sequence 30, Appl
709	16.8	1.1	47	4	US-09-025-769B-106	Sequence 106, App	C 782	16.6	1.1	41	4	US-09-167-354-4	Sequence 4, Appl
710	16.8	1.1	47	4	US-09-042-492D-28	Sequence 28, Appl	C 783	16.6	1.1	41	4	US-09-642-855-4	Sequence 4, Appl
711	16.8	1.1	47	4	US-09-042-492D-29	Sequence 28, Appl	C 784	16.6	1.1	41	4	US-09-642-855-4	Sequence 4, Appl
712	16.8	1.1	47	4	US-09-641-638-1184	Sequence 1184, Ap	C 785	16.6	1.1	41	4	US-09-438-954-37	Sequence 37, Appl
713	16.8	1.1	47	4	US-09-641-638-1296	Sequence 1296, Ap	C 786	16.6	1.1	42	3	US-08-411-777-3	Sequence 3, Appl
714	16.8	1.1	47	4	US-08-913-612A-28	Sequence 28, Appl	C 787	16.6	1.1	42	3	US-09-136-421-2	Sequence 2, Appl
715	16.8	1.1	47	4	US-08-913-612A-29	Sequence 29, Appl	C 788	16.6	1.1	42	4	US-09-057-088-3	Sequence 3, Appl
716	16.8	1.1	48	3	US-08-478-097A-39	Sequence 39, Appl	C 789	16.6	1.1	42	4	US-09-358-972-235	Sequence 25, App
717	16.8	1.1	48	3	US-08-874-825-5	Sequence 5, Appl	C 790	16.6	1.1	42	4	US-09-358-972-235	Sequence 25, App
718	16.8	1.1	48	3	US-08-663-824-5	Sequence 7, Appl	C 791	16.6	1.1	42	4	US-09-430-615-25	Sequence 25, App
719	16.8	1.1	48	3	US-09-012-515A-7	Sequence 7, Appl	C 792	16.6	1.1	43	2	US-08-391-259-9	Sequence 9, Appl
720	16.8	1.1	48	3	US-08-360-144A-7	Sequence 43, Appl	C 793	16.6	1.1	43	2	US-08-839-825-9	Sequence 9, Appl
721	16.8	1.1	48	4	US-09-485-737B-43	Sequence 5, Appl	C 794	16.6	1.1	43	4	US-08-983-564A-28	Sequence 28, Appl
722	16.8	1.1	48	4	US-09-231-303-5	Sequence 7, Appl	C 795	16.6	1.1	44	4	US-09-042-353-376	Sequence 376, App
723	16.8	1.1	48	4	US-09-012-504A-7	Sequence 31, Appl	C 796	16.6	1.1	44	4	US-08-758-417A-226	Sequence 226, App
724	16.8	1.1	48	4	PCT-US95-06722-7	Sequence 31, Appl	C 797	16.6	1.1	44	4	US-09-647-390-2	Sequence 2, Appl
725	16.8	1.1	49	5	US-07-994-469A-31	Sequence 59, Appl	C 798	16.6	1.1	45	2	US-09-169-805-9	Sequence 9, Appl
726	16.8	1.1	49	4	US-09-020-846-59	Sequence 1080, Ap	C 799	16.6	1.1	45	2	US-08-157-185-11	Sequence 11, Appl
727	16.8	1.1	49	4	US-09-538-709-1080	Sequence 375, App	C 800	16.6	1.1	45	3	US-08-893-327-9	Sequence 9, Appl
728	16.8	1.1	49	4	US-09-538-709-1165	Sequence 375, App	C 801	16.6	1.1	45	3	US-08-858-003-22	Sequence 22, Appl
729	16.8	1.1	49	4	US-08-171-389-375	Sequence 504, App	C 802	16.6	1.1	45	3	US-09-078-166-22	Sequence 11, Appl
730	16.8	1.1	50	1	US-08-171-389-504	Sequence 375, App	C 803	16.6	1.1	45	3	US-08-281-526B-11	Sequence 22, Appl
731	16.8	1.1	50	1	US-08-123-936-375	Sequence 504, App	C 804	16.6	1.1	45	3	US-08-997-467-22	Sequence 5, Appl
732	16.8	1.1	50	1	US-08-123-936-504	Sequence 504, App	C 805	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
733	16.8	1.1	50	1	US-08-477-254A-21	Sequence 21, Appl	C 806	16.6	1.1	45	4	US-08-639-294-4	Sequence 4, Appl
734	16.8	1.1	50	2	US-08-477-576B-21	Sequence 21, Appl	C 807	16.6	1.1	45	4	US-09-210-896-8	Sequence 8, Appl
735	16.8	1.1	50	2	US-08-428-734B-21	Sequence 375, App	C 808	16.6	1.1	45	4	US-09-210-896-8	Sequence 8, Appl
736	16.8	1.1	50	2	US-08-428-734B-21	Sequence 375, App	C 809	16.6	1.1	45	4	US-09-210-896-8	Sequence 8, Appl
737	16.8	1.1	50	2	US-08-475-228A-375	Sequence 504, App	C 810	16.6	1.1	45	4	US-09-217-228-4	Sequence 11, Appl
738	16.8	1.1	50	2	US-08-475-228A-504	Sequence 39, Appl	C 811	16.6	1.1	45	4	US-09-450-797-11	Sequence 11, Appl
739	16.8	1.1	50	2	US-08-749-852-39	Sequence 375, App	C 812	16.6	1.1	45	4	US-09-450-797-11	Sequence 11, Appl
740	16.8	1.1	50	2	US-08-482-080A-375	Sequence 504, App	C 813	16.6	1.1	45	4	US-09-332-837-11	Sequence 11, Appl
741	16.8	1.1	50	3	US-08-482-080A-504	Sequence 504, App	C 814	16.6	1.1	46	1	US-08-117-389-188	Sequence 188, App
742	16.8	1.1	50	3	US-08-836-922-12	Sequence 12, Appl	C 815	16.6	1.1	46	1	US-08-122-433-13	Sequence 13, Appl
743	16.8	1.1	50	4	US-08-628-747-23	Sequence 23, Appl	C 816	16.6	1.1	46	1	US-08-122-433-13	Sequence 13, Appl
744	16.8	1.1	50	4	US-09-227-717-6	Sequence 21, Appl	C 817	16.6	1.1	46	1	US-08-123-936-188	Sequence 188, App
745	16.8	1.1	50	4	US-08-713-556F-21	Sequence 17, Appl	C 818	16.6	1.1	46	2	US-08-475-228A-188	Sequence 188, App
746	16.8	1.1	50	4	US-09-128-354-17	Sequence 375, App	C 819	16.6	1.1	46	2	US-08-475-228A-188	Sequence 188, App
747	16.8	1.1	50	4	US-09-354-947-375	Sequence 504, App	C 820	16.6	1.1	46	5	PCT-US93-12388-188	Sequence 188, App
748	16.8	1.1	50	5	US-09-354-947-504	Sequence 375, App	C 821	16.6	1.1	46	5	PCT-US93-12388-188	Sequence 188, App
749	16.8	1.1	50	5	PCT-US93-12388-375	Sequence 504, App	C 822	16.6	1.1	47	1	US-07-990-303A-1	Sequence 1, Appl
750	16.8	1.1	50	5	PCT-US93-12388-504	Sequence 6, Appl	C 823	16.6	1.1	47	1	US-08-196-103A-1	Sequence 1, Appl
751	16.6	1.1	24	2	US-08-384-324-6	Sequence 6, Appl	C 824	16.6	1.1	47	1	US-08-357-336-1	Sequence 1, Appl
752	16.6	1.1	24	2	PCT-US96-01473-6	Sequence 57, Appl	C 825	16.6	1.1	47	1	US-08-386-141-1	Sequence 129, App
753	16.6	1.1	26	4	US-09-485-737B-57	Sequence 8, Appl	C 826	16.6	1.1	47	4	US-09-538-709-129	Sequence 129, App
754	16.6	1.1	29	1	US-08-568-147B-8	Sequence 8, Appl	C 827	16.6	1.1	47	4	US-09-538-709-129	Sequence 129, App
755	16.6	1.1	30	5	PCT-US95-07372-3	Sequence 8, Appl	C 828	16.6	1.1	48	1	US-08-476-349A-2	Sequence 2, Appl
756	16.6	1.1	31	4	US-09-516-357-8	Sequence 28, Appl	C 829	16.6	1.1	48	1	US-08-476-349A-2	Sequence 2, Appl
757	16.6	1.1	32	1	US-08-469-802B-28	Sequence 28, Appl	C 830	16.6	1.1	48	4	US-09-144-914-24	Sequence 24, Appl

C 831	16.6	1.1	49	4	US-09-232-468A-6	Sequence 6, Appli	904	16.4	1.0	36	2	US-08-774-310-157	Sequence 157, App
C 832	16.6	1.1	49	4	US-09-318-448-29	Sequence 29, Appli	905	16.4	1.0	36	2	US-08-660-542-13	Sequence 13, App
C 833	16.6	1.1	49	4	US-09-538-709-933	Sequence 93, App	906	16.4	1.0	36	2	US-09-038-073-585	Sequence 585, App
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C 837	16.6	1.1	49	4	US-09-538-709-987	Sequence 98, App	910	16.4	1.0	38	1	US-08-373-124A-685	Sequence 685, App
C 838	16.6	1.1	49	4	US-09-538-709-987	Sequence 98, App	911	16.4	1.0	38	1	US-08-373-124A-685	Sequence 685, App
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C 840	16.6	1.1	49	4	US-09-538-709-1011	Sequence 101, App	913	16.4	1.0	38	1	US-08-435-628-685	Sequence 17, Appli
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C 890	16.4	1.0	31	2	US-08-576-626A-10	Sequence 10, Appli	963	16.4	1.0	47	3	US-08-482-714-3	Sequence 3, Appli
C 891	16.4	1.0	33	3	US-08-258-026A-9	Sequence 9, Appli	964	16.4	1.0	47	4	US-09-371-774-54	Sequence 54, Appli
C 892	16.4	1.0	33	4	US-09-605-785-488	Sequence 488, App	965	16.4	1.0	47	4	US-09-371-774-54	Sequence 54, Appli
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C 895	16.4	1.0	34	3	US-09-282-966-11	Sequence 11, Appli	968	16.4	1.0	47	4	US-09-371-774-54	Sequence 54, Appli
C 896	16.4	1.0	35	4	US-09-282-966-11	Sequence 11, Appli	969	16.4	1.0	47	4	US-09-371-774-54	Sequence 54, Appli
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C 899	16.4	1.0	36	1	US-08-480-449-13	Sequence 13, Appli	972	16.4	1.0	48	3	US-08-338-579A-36	Sequence 36, Appli
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C 903	16.4	1.0	36	2	US-08-585-684B-585	Sequence 585, App	976	16.4	1.0	48	5	US-09-500-123-3	Sequence 3, Appli
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979 16.4 1.0 49 2 US-08-345-212-4 Sequence 4, Appli  
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982 16.4 1.0 50 1 US-08-171-389-422 Sequence 422, App  
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992 16.4 1.0 50 3 US-08-907-392A-2 Sequence 2, Appl  
993 16.4 1.0 50 3 US-08-892-747-10 Sequence 10, Appl  
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995 16.4 1.0 50 3 US-08-983-607-42 Sequence 42, Appl  
996 16.4 1.0 50 4 US-08-849-567A-60 Sequence 60, Appl  
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## ALIGNMENTS

RESULT 1  
US-09-325-256-31/C  
; Sequence 31, Application US/09325256

; GENERAL INFORMATION:  
; APPLICANT: PEPINSKY, R. BLAKE  
; APPLICANT: BAKER, DARREN P.  
; APPLICANT: WEN, DINGYI  
; APPLICANT: WILLIAMS, KEVIN P.  
; APPLICANT: GARGER, ELLER A. P.  
; APPLICANT: TAYLOR, FREDERICK R.  
; APPLICANT: GALDES, ALPHONSE  
; APPLICANT: PORTER, JEFFREY  
; TITLE OF INVENTION: HYDROPHOBICALLY-MODIFIED PROTEIN COMPOSITIONS AND  
; TITLE OF INVENTION: METHODS  
; FILE REFERENCE: BIV-067.01  
; CURRENT APPLICATION NUMBER: US/09/325.256  
; PRIOR FILING DATE: 1999-06-03  
; PRIOR APPLICATION NUMBER: 60/099.800  
; PRIOR FILING DATE: 1998-09-10  
; PRIOR APPLICATION NUMBER: 60/078.935  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/089.685  
; PRIOR FILING DATE: 1998-06-17  
; PRIOR APPLICATION NUMBER: 60/067.423  
; PRIOR FILING DATE: 1997-12-03  
; PRIOR APPLICATION NUMBER: PCT/US98/25676  
; PRIOR FILING DATE: 1998-12-03  
; NUMBER OF SEQ ID NOS: 31  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 31  
; LENGTH: 49  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Primer  
US-09-325-256-31

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Best Local Similarity 88.6%; Pred. No. 50;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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RESULT 2  
US-09-930-181-14

; Sequence 14, Application US/09930181  
; Patent No. 6455292  
; GENERAL INFORMATION:  
; APPLICANT: Origene Technologies  
; TITLE OF INVENTION: Full Length Serine Protein Kinase in Brain and Pancreas  
; FILE REFERENCE: 16U 101 V1  
; CURRENT APPLICATION NUMBER: US/09/930,181  
; CURRENT FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 14  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-930-181-14

Query Match 1.8%; Score 28.2; DB 4; Length 50;  
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Matches 36; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 1336 GGACCGCGCGGACAGCGGCGGCGGACCGCGGCGCGCGGC 1384  
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RESULT 3  
US-09-580-923-35  
; Sequence 35, Application US/09580923  
; Patent No. 6319672

; GENERAL INFORMATION:  
; APPLICANT: Crouzet, Joel  
; APPLICANT: Scherzman, Daniel  
; APPLICANT: Wils, Pierre  
; APPLICANT: Cameron, Beatrice  
; APPLICANT: Blanche, Francis  
; TITLE OF INVENTION: PURIFICATION OF A TRIPLE HELIX FORMATION WITH AN  
; TITLE OF INVENTION: IMMOBILIZED OLIGONUCLEOTIDE  
; FILE REFERENCE: 03804.0138-01  
; CURRENT APPLICATION NUMBER: US/09/580.923  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 08/860.038  
; PRIOR FILING DATE: 1997-06-09  
; PRIOR APPLICATION NUMBER: PCT/FR95/01468  
; PRIOR FILING DATE: 1995-11-08  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 35  
; LENGTH: 50  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: oligonucleotide  
US-09-580-923-35

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Best Local Similarity 70.0%; Pred. No. 4.5e+03;  
Matches 35; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

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DB 1 GA 50

RESULT 4  
US-08-068-747-7  
; Sequence 7, Application US/08068747  
; Patent No. 5695933



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: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/846,020A
: FILING DATE:
: CLASSIFICATION: 424
: ATTORNEY/AGENT INFORMATION:
: NAME: Jarrell Ph.D., Brenda H.
: REGISTRATION NUMBER: 39,223
: REFERENCE/DOCKET NUMBER: 0092662-0012
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 248-5000
: TELEFAX: (617) 248 4000
: INFORMATION FOR SEQ ID NO: 6:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 50 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: both
: TOPOLOGY: not relevant
: MOLECULE TYPE: DNA (genomic)
: IMMEDIATE SOURCE:
: CLONE: No. 6090547mal tandem SPL binding motif with 6 base
: CLONE: pair deletion
: US-08-846-020A-6

Query Match
Best Local Similarity 1.6%; Score 24.6; DB 3; Length 50;
Matches 30; Conservative 0; Mismatches 9; Indels 0; Gaps 0

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RESULT 6
: US-09-617-871-6
: Sequence 6, Application US/09617871
: Patent No. 6355434
: GENERAL INFORMATION:
: APPLICANT: Drazen M.D., Jeffrey M.
: APPLICANT: In M.D., Kwang-Ho
: APPLICANT: Asano M.D., Koichiro
: APPLICANT: Belier, David
: APPLICANT: Grobholz, James
: TITLE OF INVENTION: 5-Lipoxygenase Gene Sequence
: TITLE OF INVENTION: Polymorphisms and Their Use in Classifying Patients
: NUMBER OF SEQUENCES: 43
: CORRESPONDENCE ADDRESSES:
: ADDRESSEE: CHOATE, HALL & STEWART
: STREET: 53 State Street
: CITY: Boston
: STATE: MA
: COUNTRY: USA
: ZIP: 02109-2891
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/617,871
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/846,020
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Jarrell Ph.D., Brenda H.
: REGISTRATION NUMBER: 39,223
: REFERENCE/DOCKET NUMBER: 0092662-0012
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 248-5000
: TELEFAX: (617) 248 4000
: INFORMATION FOR SEQ ID NO: 6:

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US-08-356-060A-43

COUNTRY: USA  
 DATE: 03100

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/460,900C  
FILING DATE: 5-JUNE-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/435,093  
FILING DATE: 4-MAY-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/356,060  
FILING DATE: 14-DEC-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/176,427  
FILING DATE: 30-DEC-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: HMV-006.05  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
FAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
US-08-460-900C-43

Query Match 1.5%; Score 24; DB 4; Length 24;  
Best Local Similarity 100.0%; Pred. No. 9.9e+03;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 524 ACCGAGGCGCTGGACGAGATGCG 547  
DB 1 ACCGAGGCGCTGGACGAGATGCG 24

RESULT 10  
US-08-674-509B-43  
Sequence 43, Application US/08674509B  
Patent No. 6261786  
GENERAL INFORMATION:  
APPLICANT: Ingham, Phillip W.  
APPLICANT: McMahon, Andrew P.  
APPLICANT: Tablin, Clifford J.  
APPLICANT: Matlgo, Valeria  
TITLE OF INVENTION: SCREENING ASSAYS FOR HEDGEGOG AGONISTS  
NUMBER OF SEQUENCES: 48  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/674,509B  
FILING DATE: 02-JUN-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/460,900  
FILING DATE: 05-JUN-1995

ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: HMV-006.06  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
FAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "primer"  
US-08-674-509B-43

Query Match 1.5%; Score 24; DB 4; Length 24;  
Best Local Similarity 100.0%; Pred. No. 9.9e+03;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 524 ACCGAGGCGCTGGACGAGATGCG 547  
DB 1 ACCGAGGCGCTGGACGAGATGCG 24

RESULT 11  
US-08-954-698-43  
Sequence 43, Application US/08954698  
Patent No. 6271363  
GENERAL INFORMATION:  
APPLICANT: Ingham, Phillip W.  
APPLICANT: McMahon, Andrew P.  
APPLICANT: Tablin, Clifford J.  
TITLE OF INVENTION: Vertebrate Embryonic Pattern-Inducing  
NUMBER OF SEQUENCES: 48  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/954,698  
FILING DATE: 20-OCT-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/462,386  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/435,093  
FILING DATE: 04-MAY-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/356,060  
FILING DATE: 14-DEC-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/176,427  
FILING DATE: 30-DEC-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: HMV-006.10  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
FAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:

LENGTH: 24 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-954-698-43

Query Match 1.5%; Score 24; DB 4; Length 24;  
Best Local Similarity 100.0%; Pred. No. 9.9e+03;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 524 ACCGAGGCTGGAGCAGATGCG 547  
Db 1 ACCGAGGCTGGAGCAGATGCG 24

RESULT 12  
US-08-957-874-43  
Sequence 43, Application US/08957874  
Patent No. 6384192

GENERAL INFORMATION:  
APPLICANT: Ingham, Phillip W.  
APPLICANT: McMahon, Andrew P.  
TITLE OF INVENTION: Vertebrate Embryonic Pattern-Inducing  
TITLE OF INVENTION: Proteins and Uses Related Thereto  
NUMBER OF SEQUENCES: 47  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: POLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/957, 874  
FILING DATE: 20-OCT-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/462,386  
FILING DATE: 5-JUNE-1995

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/435,093  
FILING DATE: 4-MAY-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/356,060  
FILING DATE: 14-DEC-1994

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/176,427  
FILING DATE: 30-DEC-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: HWY-006.09

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
US-08-957-874-43

Query Match 1.5%; Score 24; DB 4; Length 24;  
Best Local Similarity 100.0%; Pred. No. 9.9e+03;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 524 ACCGAGGCTGGAGCAGATGCG 547  
Db 1 ACCGAGGCTGGAGCAGATGCG 24

RESULT 13  
US-08-258-026A-13  
Sequence 13, Application US/08258026A  
Patent No. 5516637

GENERAL INFORMATION:  
APPLICANT: Huang, Grace P.  
APPLICANT: Rhode, Peter R.  
APPLICANT: Stinson, Jeffrey R.  
TITLE OF INVENTION: A METHOD FOR DISPLAYING PROTEINS  
NUMBER OF SEQUENCES: 26  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: David G. Conlin, DIKE, BRONSTEIN, ROBERTS &  
STREET: 130 WATER STREET  
CITY: BOSTON  
STATE: MASSACHUSETTS  
COUNTRY: US  
ZIP: 02109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/258,026A  
FILING DATE: 10-JUN-1994  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Resnick, David R.  
REGISTRATION NUMBER: 34235  
REFERENCE/DOCKET NUMBER: 42838  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 523-3400  
TELEFAX: (617) 523-6400

INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 45 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
US-08-258-026A-13

Query Match 1.5%; Score 24; DB 1; Length 45;  
Best Local Similarity 75.0%; Pred. No. 1.1e+04;  
Matches 30; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 1341 CGCGGCGGACGCGCGCGGACCGCGGCGGCGG 1380  
Db 2 GTGGCGGTGGCAGCGCGGTGTTCGCGGCGGCGG 41

RESULT 14  
US-09-813-781-129  
Sequence 129, Application US/09813781  
Patent No. 6405989

GENERAL INFORMATION:  
APPLICANT: WEIDANZ, JON A.  
APPLICANT: CARD, KIMBERLYN F.  
TITLE OF INVENTION: FUSION PROTEINS COMPRISING BACTERIOPHAGE COAT PROTEIN  
TITLE OF INVENTION: AND A SINGLE-CHAIN T-CELL RECEPTOR  
FILE REFERENCE: 46745(1758)  
CURRENT APPLICATION NUMBER: US/09/813,781  
CURRENT FILING DATE: 2001-03-22  
NUMBER OF SEQ ID NOS: 130

SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 129  
LENGTH: 45  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: synthetic  
US-09-813-781-129

Query Match  
Best Local Similarity 1.5%; Score 24; DB 4; Length 45;  
Matches 30; Conservative 0; Pred. No. 1.1e+04;  
Mismatches 10; Indels 0; Gaps 0;

QY 1341 GCGGCGGACAGCGGCGGCGGACCGCGGCGGCGG 1380  
DB 2 GTGGCGGTGCGACGCGGCGGTGTGTTCCGAGCGGCGG 41

## RESULT 15

PCT-US95-07541-13  
Sequence 13, Application PC/TUS9507541  
GENERAL INFORMATION:

APPLICANT: Huang, Grace P.  
APPLICANT: Rhode, Peter R.  
APPLICANT: Stinson, Jeffrey R.  
APPLICANT: Wong, Hing C.  
TITLE OF INVENTION: A METHOD FOR DISPLAYING  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESSES:

ADDRESSEE: David G. Conlin, DIKE, BRONSTEIN,  
ADDRESSEE: ROBERTS & CUSHMAN  
STREET: 130 WATER STREET  
CITY: BOSTON  
STATE: MASSACHUSETTS  
COUNTRY: US  
ZIP: 02109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/07541  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/258,026  
FILING DATE: 10-JUN-1994  
ATTORNEY/AGENT INFORMATION:

NAME: Resnick, David R.  
REGISTRATION NUMBER: 34235  
REFERENCE/DOCKET NUMBER: 42838  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 523-3400  
TELEFAX: (617) 523-6400  
TELEX: 200291 STRE UR

INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 45 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
PCT-US95-07541-13

Query Match  
Best Local Similarity 1.5%; Score 24; DB 5; Length 45;  
Matches 30; Conservative 0; Pred. No. 1.1e+04;  
Mismatches 10; Indels 0; Gaps 0;

QY 1341 GCGGCGGACAGCGGCGGCGGACCGCGGCGGCGG 1380  
DB 2 GTGGCGGTGCGACGCGGCGGTGTGTTCCGAGCGGCGG 41

## RESULT 16

US-08-068-747-2/C  
Sequence 2, Application US/08068747  
Patent No. 5695933  
GENERAL INFORMATION:

APPLICANT: Schalling, Martin  
APPLICANT: Hudson, Thomas J.  
APPLICANT: Housman, David E.  
TITLE OF INVENTION: Direct Determination of Expanded  
TITLE OF INVENTION: Nucleotide Repeats in the Human Genome  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
STREET: Two Millitia Drive  
CITY: Lexington  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02173

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/068,747  
FILING DATE: 28-MAY-1993  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Granahan, Patricia  
REGISTRATION NUMBER: 32,227  
REFERENCE/DOCKET NUMBER: MIT-6141  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-861-6240  
TELEFAX: 617-861-9540

INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 30 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "Synthetic"  
US-08-068-747-2

Query Match  
Best Local Similarity 1.5%; Score 23.6; DB 1; Length 30;  
Matches 26; Conservative 0; Pred. No. 1.2e+04;  
Mismatches 4; Indels 0; Gaps 0;

QY 1354 GCGGCGGACAGCGGCGGCGGCGGCGGCGG 1383  
DB 30 GCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1

## RESULT 17

US-09-499-884-12  
Sequence 12, Application US/09499884  
Patent No. 6265172  
GENERAL INFORMATION:

APPLICANT: St. Clair, Daret  
APPLICANT: Urano, Muneyasu  
APPLICANT: Kasarskis, Edward  
TITLE OF INVENTION: DIAGNOSTIC TEST AND THERAPY FOR MANGANESE SUPEROXIDE DISMU  
FILE REFERENCE: 50229-180  
CURRENT APPLICATION NUMBER: US/09/499,884  
CURRENT FILING DATE: 2000-02-08  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn version 3.0

SEQ ID NO 12  
LENGTH: 38  
TYPE: DNA

ORGANISM: Homo sapiens  
US-09-499-884-12

Query Match 1.5%; Score 23.6; DB 4; Length 38;  
Best Local Similarity 76.3%; Pred. No. 1.3e+04;  
Matches 29; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1340 CGCGCGGGGACAGCGGCGGCGGCGGCGG 1377  
DB 1 CGCGCGCGGGCGCGGCGGCGGCGGCGGCGG 38

RESULT 18

US-09-497-933A-19  
Sequence 19, Application US/09497933A

Patent No. 6329147  
GENERAL INFORMATION:  
APPLICANT: Wagner, Robert Jr. E.  
TITLE OF INVENTION: METHODS FOR DETECTION OF A TRIPLET REPEAT BLOCK AND A  
TITLE OF INVENTION: FUNCTIONAL MISMATCH BINDING PROTEIN IN A BIOLOGICAL  
TITLE OF INVENTION: FLUID SAMPLE  
FILE REFERENCE: 9408-044  
CURRENT APPLICATION NUMBER: US/09/497,933A  
CURRENT FILING DATE: 2000-02-04  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 19  
LENGTH: 48  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Probe  
NAME/KEY: modified\_base  
LOCATION: (1)-(9)  
OTHER INFORMATION: n = a, c, g or t  
NAME/KEY: modified\_base  
LOCATION: (40)-(48)  
OTHER INFORMATION: n = a, c, g or t  
US-09-497-933A-19

Query Match 1.5%; Score 23.6; DB 4; Length 48;  
Best Local Similarity 86.7%; Pred. No. 1.3e+04;  
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1354 CGCGCGCGGGACCGCGGCGGCGGCGG 1383  
DB 10 CGCGCGCGCGCGCGGCGGCGGCGGCGG 39

RESULT 19

US-09-930-181-13  
Sequence 13, Application US/09930181

Patent No. 6455292  
GENERAL INFORMATION:  
APPLICANT: Origene Technologies  
TITLE OF INVENTION: Full-length Serine Protein Kinase in Brain and Pancreas  
FILE REFERENCE: 16U 101 VI  
CURRENT APPLICATION NUMBER: US/09/930,181  
CURRENT FILING DATE: 2001-08-16  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 13  
LENGTH: 50  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-930-181-13

Query Match 1.5%; Score 23.6; DB 4; Length 50;  
Best Local Similarity 69.6%; Pred. No. 1.3e+04;  
Matches 32; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1328 GCGCGACGACCGCGGCGGACAGCGGCGGCGGCGGCGG 1373  
1 1111 11 111111 11 11111111 11 1111 1

DB 5 GGGCGGGGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 50

RESULT 20

US-08-748-591-12/c  
Sequence 12, Application US/08748591  
Patent No. 5759811

GENERAL INFORMATION:  
APPLICANT: Epstein, Ervin  
APPLICANT: Hu, Zhilan  
APPLICANT: Bonifas, Jeanette  
TITLE OF INVENTION: Mutant Human Hedgehog Gene  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish and Richardson  
STREET: 2200 Sand Hill Road  
CITY: Menlo Park  
STATE: CA  
COUNTRY: USA  
ZIP: 94025

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/748,591  
FILING DATE:  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Sherwood, Pamela J  
REGISTRATION NUMBER: 36,677  
REFERENCE/DOCKET NUMBER: 06510/067001  
TELEPHONE: (415) 322-5070  
TELEFAX: (415) 854-0875  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

MOLECULE TYPE: cDNA  
US-08-748-591-12

Query Match 1.5%; Score 23.4; DB 1; Length 25;  
Best Local Similarity 96.0%; Pred. No. 1.3e+04;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 616 CAGCAGTACGCGCATGCTGCCCGC 640  
DB 25 CAGCAGTACGCGCATGCTGCCCGC 1

RESULT 21

US-09-083-123-5/c  
Sequence 5, Application US/09083123

Patent No. 6326143  
GENERAL INFORMATION:  
APPLICANT: Orum, Hendrik  
APPLICANT: Seeger, Corina  
TITLE OF INVENTION: Method for Generating Multiple Double Stranded Nucleic  
TITLE OF INVENTION: Acids  
FILE REFERENCE: sequence listing  
CURRENT APPLICATION NUMBER: US/09/083,123  
CURRENT FILING DATE: 1998-05-22  
EARLIER APPLICATION NUMBER: EP 95118600.6  
EARLIER FILING DATE: 1995-11-25  
EARLIER APPLICATION NUMBER: PCT/EP96/05149  
EARLIER FILING DATE: 1996-11-22  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 5

LENGTH: 32  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: made by humans  
US-09-083-123-5

Query Match 1.4% Score 22.4; DB 4; Length 32;  
Best Local Similarity 81.2%; Pred. No. 2.1e+04;  
Matches 26; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1543 CCGGGGGGGGGGGAGGAGCGGCGGAGGAGG 1574  
||||| ||||| ||||| ||||| |||||  
DB 32 CCGGGGGGGGGGGAGGAGCGGCGGAGGAGG 1

RESULT 22  
US-09-325-256-30  
Sequence 30, Application US/09325256  
Patent No. 6444793

GENERAL INFORMATION:  
APPLICANT: PEPINSKY, R. BLAKE  
APPLICANT: BAKER, DARREN P.  
APPLICANT: MEN, DINGYI  
APPLICANT: WILLIAMS, KEVIN P.  
APPLICANT: GARGER, ELLEN A.  
APPLICANT: TAYLOR, FREDERICK R.  
APPLICANT: GALDES, ALPHONSE  
APPLICANT: PORTER, JEFFREY  
TITLE OF INVENTION: HYDROPHOBICALLY-MODIFIED PROTEIN COMPOSITIONS AND  
FILE REFERENCE: BIV-067.01  
CURRENT APPLICATION NUMBER: US/09/325.256  
PRIOR FILING DATE: 1999-06-03  
PRIOR APPLICATION NUMBER: 60/099,800  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/078,935  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/089,685  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/067,423  
PRIOR FILING DATE: 1997-12-03  
PRIOR APPLICATION NUMBER: PCT/US98/25676  
PRIOR FILING DATE: 1998-12-03  
NUMBER OF SEQ ID NOS: 31  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 30  
LENGTH: 47  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Primer  
US-09-325-256-30

Query Match 1.4% Score 22; DB 4; Length 47;  
Best Local Similarity 100.0%; Pred. No. 2.7e+04;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CGGACCGGGGCGGGGTTTCGGG 244  
||||| ||||| ||||| ||||| |||||  
DB 26 CGGACCGGGGCGGGGTTTCGGG 47

RESULT 23  
US-08-340-045-7  
Sequence 7, Application US/08340045  
Patent No. 5637495  
GENERAL INFORMATION:  
APPLICANT: AVIV, HATM  
APPLICANT: GORECKI, MARIAN  
APPLICANT: LEVANON, AVIGDOR  
APPLICANT: OPPENHEIM, AMOS  
APPLICANT: VOGEL, TIKVA

APPLICANT: ZEEVIL, ELISHA  
APPLICANT: ZEEVIL, MENACHEM  
TITLE OF INVENTION: PLASMIDS FOR PRODUCTION OF HUMAN GROWTH  
TITLE OF INVENTION: HORMONE OR POLYPEPTIDE ANALOG THEREOF, HOSTS CONTAINING  
TITLE OF INVENTION: THE PLASMIDS, PRODUCTS MANUFACTURED THEREBY, AND RELATED  
TITLE OF INVENTION: METHODS  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESS:  
ADDRESS: COOPER & DUNHAM LLP  
STREET: 1185 AVENUE OF THE AMERICAS  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/340.045

FILING DATE: 14-NOV-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: WHITE, JOHN P.

REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 20065-G/JPM/GJG

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-278-0400

TELEFAX: 212-391-0525

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 35 base pairs

TYPE: nucleic acid

STRANDEDNESS: unknown

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOHETICAL: NO

ANTI-SENSE: NO

US-08-340-045-7

Query Match 1.4% Score 21.8; DB 1; Length 35;  
Best Local Similarity 78.8%; Pred. No. 2.8e+04;  
Matches 26; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 789 AGCTGTGAAGACCTGAGCCCGGAGCGCG 821  
||||| ||||| ||||| ||||| |||||  
DB 3 AGCTGTGAAGACCTGAGCCCGGAGCGCG 35

RESULT 24  
US-08-871-302A-7  
Sequence 7, Application US/08871302A  
Patent No. 6054291

GENERAL INFORMATION:

APPLICANT: AVIV, HATM

APPLICANT: GORECKI, MARIAN

APPLICANT: LEVANON, AVIGDOR

APPLICANT: OPPENHEIM, AMOS

APPLICANT: VOGEL, TIKVA

APPLICANT: ZEEVIL, ELISHA

APPLICANT: ZEEVIL, MENACHEM

TITLE OF INVENTION: PLASMIDS FOR PRODUCTION OF HUMAN GROWTH

TITLE OF INVENTION: HORMONE OR POLYPEPTIDE ANALOG THEREOF, HOSTS CONTAINING

TITLE OF INVENTION: THE PLASMIDS, PRODUCTS MANUFACTURED THEREBY, AND RELATED

TITLE OF INVENTION: METHODS

NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:

ADDRESS: COOPER & DUNHAM LLP

STREET: 1185 AVENUE OF THE AMERICAS

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

```

1      ZIP: 10036
2
3      COMPUTER READABLE FORM:
4
5      MEDIUM TYPE: Floppy disk
6
7      COMPUTER: IBM PC compatible
8
9      OPERATING SYSTEM: PC-DOS/MS-DOS
10     SOFTWARE: Patentin Release #1.0, Version
11     CURRENT APPLICATION DATA:
12
13     APPLICATION NUMBER: US/08/871,302A
14
15     FILING DATE:
16
17     CLASSIFICATION:
18
19     PRIOR APPLICATION DATA:
20
21     APPLICATION NUMBER: 08/340,045
22
23     FILING DATE:
24
25     ATTORNEY/AGENT INFORMATION:
26
27     NAME: WHITE, JOHN P.
28
29     REGISTRATION NUMBER: 28,678
30
31     REFERENCE/DOCKET NUMBER: 20065-G/JPW/GJG
32
33     TELECOMMUNICATION INFORMATION:
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35     TELEPHONE: 212-278-0400
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37     TELEFAX: 212-391-0525
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39     INFORMATION FOR SEQ ID NO: 7:
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41     SEQUENCE CHARACTERISTICS:
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43     LENGTH: 35 base pairs
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45     TYPE: nucleic acid
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47     STRANDEDNESS: unknown
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49     TOPOLOGY: linear
50
51     MOLECULE TYPE: DNA (genomic)
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53     HYPOTHETICAL: NO
54
55     ANTI-SENSE: NO
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57     US-08-871-302A-7

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; Patent No. 6350860
; GENERAL INFORMATION:
; APPLICANT: Buysse, Marie-Ange
; APPLICANT: Sablon, Erwin
; TITLE OF INVENTION: INTERFERON-gamma-BINDING MOLECULES FOR TREATING SEPTIC SHOCK
; TITLE OF INVENTION: CACHEXIA, IMMUNE DISEASES AND SKIN DISORDERS
; FILE REFERENCE: INNS:015
; CURRENT APPLICATION NUMBER: US/09/485,737B
; CURRENT FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: PCT/EP 98/05165
; PRIOR FILING DATE: 1998-08-14
; PRIOR APPLICATION NUMBER: EPO 98870139.7
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: EPO 97870122.5
; PRIOR FILING DATE: 1997-08-18
; NUMBER OF SEQ ID NOS: 104
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
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; TYPE: DNA
; ORGANISM: UNKNOWN
; FEATURE:
; OTHER INFORMATION: GENOMIC
US-09-485-737B-5

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Query Match	1.4%	Score 21.6;	DB 4;	Length 40;
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Gapop 10.0 , Gapext 1.0

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Maximum Match 100%  
Listing first 1000 summaries

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Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

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C 3	22	1.4	30	10	US-09-828-034-7	Sequence 7, App	
4	21.4	1.4	45	9	US-10-006-8566-151	Sequence 151, App	
5	20.8	1.3	45	9	US-10-135-984-6	Sequence 6, App1	
6	20.8	1.3	46	9	US-10-135-984-6	Sequence 4, App1	
C 7	20.8	1.3	46	9	US-10-135-984-5	Sequence 5, App1	
C 8	20.8	1.3	46	9	US-10-135-984-7	Sequence 7, App1	
C 9	20.4	1.3	35	9	US-09-888-326-172	Sequence 172, App	
10	20.4	1.3	41	9	US-10-027-961A-14	Sequence 14, App	
C 11	20.4	1.3	49	10	US-09-740-002-9	Sequence 9, App	
12	20.2	1.3	48	12	US-10-073-152-32	Sequence 32, App	
13	20	1.3	45	9	US-09-992-598-132	Sequence 122, App	
14	20	1.3	45	9	US-09-989-292A-122	Sequence 122, App	
15	20	1.3	45	9	US-09-989-733-122	Sequence 122, App	
16	20	1.3	45	9	US-09-990-444-122	Sequence 122, App	
17	20	1.3	45	9	US-09-989-730-122	Sequence 122, App	
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19	20	1.3	45	9	US-09-991-181-122	Sequence 122, App	

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95	18.6	1.2	45	9	US-09-903-786-313	Sequence 313, App	168	17.6	1.1	50	10	US-09-740-002-7	Sequence 7, Appl
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99	18.6	1.2	45	10	US-09-989-723-122	Sequence 122, App	172	17.4	1.1	31	10	US-09-801-274-213	Sequence 213, App
100	18.6	1.2	45	10	US-09-989-727-122	Sequence 122, App	173	17.4	1.1	31	10	US-09-801-274-213	Sequence 213, App
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102	18.6	1.2	45	10	US-09-989-731-122	Sequence 122, App	175	17.4	1.1	31	10	US-09-801-274-676	Sequence 676, App
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104	18.6	1.2	45	10	US-09-991-073-122	Sequence 122, App	177	17.4	1.1	31	10	US-09-801-274-1211	Sequence 1211, App
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133	18.4	1.2	49	10	US-09-785-632A-8	Sequence 8, Appl	206	17.2	1.1	32	10	US-09-120-120-50	Sequence 50, Appl
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135	18.2	1.2	39	9	US-09-900-379-37	Sequence 37, Appl	208	17.2	1.1	33	9	US-09-227-718-7	Sequence 7, Appl
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139	18.2	1.2	42	9	US-09-861-257-27	Sequence 27, Appl	212	17.2	1.1	36	9	US-09-783-880-12	Sequence 12, Appl
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143	18.2	1.2	43	10	US-09-894-788-20	Sequence 20, Appl	216	17.2	1.1	37	9	US-10-146-329-2	Sequence 2, Appl
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145	18.2	1.2	31	9	US-09-912-263-430	Sequence 430, App	218	17.2	1.1	37	10	US-10-067-790-49	Sequence 49, Appl
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147	17.8	1.1	31	10	US-09-801-274-1526	Sequence 1526, App	220	17.2	1.1	39	9	US-10-067-892-49	Sequence 49, Appl
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165	17.6	1.1	50	9	US-10-125-751-17	Sequence 17, Appl	238	17.2	1.1	49	10	US-09-740-002-10	Sequence 10, Appl

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C 243	16.8	1.1	31	10	US-09-801-274-1526	Sequence 1526, Ap	C 316	16.4	1.0	31	10	US-09-801-274-825	Sequence 825, App
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C 259	16.8	1.1	43	9	US-09-978-189-450	Sequence 450, App	C 332	16.4	1.0	36	10	US-09-504-231A-2479	Sequence 2479, Ap
C 260	16.8	1.1	45	9	US-09-978-608A-450	Sequence 450, App	C 333	16.4	1.0	36	10	US-09-274-553D-1701	Sequence 1701, Ap
C 261	16.8	1.1	45	9	US-10-124-880-56	Sequence 56, Appl	C 334	16.4	1.0	39	9	US-09-274-553D-2479	Sequence 2479, Ap
C 262	16.8	1.1	48	9	US-09-864-785-3343	Sequence 3343, Ap	C 335	16.4	1.0	39	9	US-09-874-547-28	Sequence 28, Appl
C 263	16.8	1.1	48	10	US-09-880-732-55	Sequence 55, Appl	C 336	16.4	1.0	40	9	US-10-125-635A-371	Sequence 371, App
C 264	16.8	1.1	49	10	US-09-179-536B-119	Sequence 119, App	C 337	16.4	1.0	40	9	US-09-814-292-16	Sequence 16, Appl
C 265	16.8	1.1	50	9	US-10-012-896-969	Sequence 969, App	C 338	16.4	1.0	42	9	US-10-097-597-11	Sequence 11, Appl
C 266	16.8	1.1	50	9	US-09-895-814-969	Sequence 969, App	C 339	16.4	1.0	42	9	US-10-097-597-11	Sequence 11, Appl
C 267	16.8	1.1	50	10	US-09-765-555-29	Sequence 29, Appl	C 340	16.4	1.0	42	9	US-10-097-597-11	Sequence 11, Appl
C 268	16.6	1.1	25	10	US-09-990-080-17	Sequence 17, Appl	C 341	16.4	1.0	42	9	US-10-045-631A-23	Sequence 23, Appl
C 269	16.6	1.1	25	10	US-09-866-108-3140	Sequence 3140, Ap	C 342	16.4	1.0	42	10	US-09-445-022A-11	Sequence 11, Appl
C 270	16.6	1.1	25	10	US-09-866-108-3141	Sequence 3141, Ap	C 343	16.4	1.0	45	9	US-09-957-641-10	Sequence 10, Appl
C 271	16.6	1.1	31	10	US-09-866-108-3142	Sequence 3142, Ap	C 344	16.4	1.0	45	9	US-09-957-641-10	Sequence 10, Appl
C 272	16.6	1.1	31	10	US-09-911-935A-8	Sequence 8, Appl	C 345	16.4	1.0	45	9	US-10-211-069-42	Sequence 42, Appl
C 273	16.6	1.1	32	10	US-09-896-650A-18	Sequence 18, Appl	C 346	16.4	1.0	45	10	US-09-893-615-68	Sequence 68, Appl
C 274	16.6	1.1	33	9	US-09-756-854-13	Sequence 13, Appl	C 347	16.4	1.0	45	10	US-09-893-615-68	Sequence 68, Appl
C 275	16.6	1.1	33	10	US-10-041-574-13	Sequence 13, Appl	C 348	16.4	1.0	47	9	US-09-876-082-54	Sequence 54, Appl
C 276	16.6	1.1	34	9	US-09-757-824-1	Sequence 1, Appli	C 349	16.4	1.0	47	9	US-09-876-082-54	Sequence 54, Appl
C 277	16.6	1.1	36	9	US-10-158-895-46	Sequence 46, Appl	C 350	16.4	1.0	48	9	US-09-875-082-54	Sequence 54, Appl
C 278	16.6	1.1	36	9	US-10-057-558-35	Sequence 35, Appl	C 351	16.4	1.0	48	9	US-09-991-209-8	Sequence 9, Appli
C 279	16.6	1.1	36	9	US-10-072-438-14	Sequence 14, Appl	C 352	16.4	1.0	48	9	US-10-090-215-3	Sequence 3, Appli
C 280	16.6	1.1	36	9	US-10-072-438-28	Sequence 28, Appl	C 353	16.4	1.0	50	10	US-09-874-547-11	Sequence 11, Appl
C 281	16.6	1.1	36	9	US-10-137-765-18	Sequence 18, Appl	C 354	16.2	1.0	21	9	US-09-828-034-10	Sequence 9, Appli
C 282	16.6	1.1	37	10	US-10-146-337-18	Sequence 18, Appl	C 355	16.2	1.0	22	9	US-09-837-621-32	Sequence 32, Appl
C 283	16.6	1.1	38	9	US-09-736-969A-68	Sequence 68, Appl	C 356	16.2	1.0	22	9	US-09-837-621-32	Sequence 32, Appl
C 284	16.6	1.1	38	9	US-09-864-785-917	Sequence 917, App	C 357	16.2	1.0	22	9	US-09-837-621-32	Sequence 32, Appl
C 285	16.6	1.1	38	9	US-09-864-785-1037	Sequence 1037, Ap	C 358	16.2	1.0	22	10	US-09-788-038-35	Sequence 35, Appl
C 286	16.6	1.1	39	9	US-10-046-922-74	Sequence 74, Appl	C 359	16.2	1.0	24	9	US-09-837-621-28	Sequence 28, Appl
C 287	16.6	1.1	42	9	US-09-777-597A-12	Sequence 12, Appl	C 360	16.2	1.0	24	9	US-09-837-621-29	Sequence 29, Appl
C 288	16.6	1.1	42	9	US-10-188-947-7	Sequence 7, Appli	C 361	16.2	1.0	24	9	US-09-837-621-30	Sequence 30, Appl
C 289	16.6	1.1	42	10	US-10-083-590-2	Sequence 2, Appli	C 362	16.2	1.0	24	10	US-09-788-038-28	Sequence 28, Appl
C 290	16.6	1.1	43	9	US-09-790-417-235	Sequence 235, App	C 363	16.2	1.0	24	10	US-09-788-038-29	Sequence 29, Appl
C 291	16.6	1.1	45	9	US-10-085-853-28	Sequence 28, Appl	C 364	16.2	1.0	24	10	US-09-788-038-29	Sequence 29, Appl
C 292	16.6	1.1	46	9	US-09-735-056-22	Sequence 22, Appl	C 365	16.2	1.0	25	10	US-09-866-108-3143	Sequence 3143, Ap
C 293	16.6	1.1	46	10	US-09-795-006A-29	Sequence 29, Appl	C 366	16.2	1.0	27	10	US-09-866-108-3144	Sequence 3144, Ap
C 294	16.6	1.1	48	10	US-09-939-484-24	Sequence 24, Appl	C 367	16.2	1.0	27	10	US-09-866-108-3144	Sequence 3144, Ap
C 295	16.6	1.1	48	10	US-09-939-483-24	Sequence 24, Appl	C 368	16.2	1.0	29	10	US-09-899-917-7	Sequence 7, Appli
C 296	16.6	1.1	49	10	US-09-973-322-20	Sequence 20, Appl	C 369	16.2	1.0	29	10	US-09-899-917-10	Sequence 10, Appl
C 297	16.6	1.1	50	9	US-09-990-046-6	Sequence 6, Appli	C 370	16.2	1.0	30	9	US-09-955-052-5	Sequence 5, Appli
C 298	16.6	1.1	50	9	US-09-900-425A-32	Sequence 32, Appl	C 371	16.2	1.0	30	9	US-09-955-052-5	Sequence 5, Appli
C 299	16.6	1.1	50	9	US-10-125-751-18	Sequence 18, Appl	C 372	16.2	1.0	30	10	US-09-897-042-10	Sequence 7, Appli
C 300	16.6	1.1	50	9	US-09-912-552-18	Sequence 18, Appl	C 373	16.2	1.0	31	9	US-09-961-077-414	Sequence 414, App
C 301	16.6	1.1	50	9	US-10-011-931-12	Sequence 12, Appl	C 374	16.2	1.0	31	9	US-09-912-263-39	Sequence 39, Appl
C 302	16.6	1.1	50	9	US-10-036-949-40	Sequence 40, Appl	C 375	16.2	1.0	31	9	US-09-912-263-39	Sequence 39, Appl
C 303	16.6	1.1	50	9	US-10-079-185-32	Sequence 32, Appl	C 376	16.2	1.0	31	9	US-09-912-263-39	Sequence 39, Appl
C 304	16.6	1.1	50	10	US-09-912-436-15	Sequence 15, Appl	C 377	16.2	1.0	31	9	US-09-912-263-39	Sequence 39, Appl
C 305	16.6	1.1	50	10	US-09-918-029-18	Sequence 18, Appl	C 378	16.2	1.0	31	10	US-09-801-274-181	Sequence 181, App
C 306	16.6	1.1	50	10	US-09-900-062-44	Sequence 44, Appl	C 379	16.2	1.0	31	10	US-09-801-274-337	Sequence 337, App
C 307	16.6	1.1	50	12	US-10-038-271-18	Sequence 18, Appl	C 380	16.2	1.0	31	10	US-09-801-274-1345	Sequence 1345, Ap
C 308	16.4	1.0	18	10	US-09-797-862-23	Sequence 23, Appl	C 381	16.2	1.0	31	10	US-09-801-274-1423	Sequence 1423, Ap
C 309	16.4	1.0	21	10	US-09-798-058-13	Sequence 13, Appl	C 382	16.2	1.0	31	10	US-09-801-274-1504	Sequence 1504, Ap
C 310	16.4	1.0	27	10	US-09-725-363A-6	Sequence 6, Appli	C 383	16.2	1.0	31	10	US-09-801-274-1601	Sequence 1601, Ap
C 311	16.4	1.0	28	10	US-09-867-475-4	Sequence 4, Appli	C 384	16.2	1.0	32	9	US-09-847-101B-41	Sequence 41, Appl

385	16.2	1.0	34	10	US-09-790-417-234	Sequence 234, App	458	16	1.0	31	10	US-09-801-274-989	Sequence 989, App
386	16.2	1.0	35	9	US-09-850-514-48	Sequence 48, Appl	459	16	1.0	32	10	US-09-923-246-62	Sequence 62, Appl
387	16.2	1.0	36	9	US-09-991-209-62	Sequence 62, Appl	460	16	1.0	33	9	US-09-416-579-4	Sequence 4, Appl
388	16.2	1.0	37	10	US-09-504-201A-3220	Sequence 3220, Ap	461	16	1.0	33	10	US-09-966-781A-21	Sequence 21, Appl
389	16.2	1.0	37	10	US-09-760-574-13	Sequence 13, Appl	462	16	1.0	33	10	US-09-922-378-13	Sequence 13, Appl
390	16.2	1.0	38	9	US-09-864-785-780	Sequence 780, App	463	16	1.0	33	12	US-10-066-179-13	Sequence 13, Appl
391	16.2	1.0	38	9	US-10-201-510-6	Sequence 6, Appl	464	16	1.0	35	9	US-09-376-940-21	Sequence 21, Appl
392	16.2	1.0	38	9	US-09-941-492-30	Sequence 30, Appl	465	16	1.0	37	10	US-09-938-433-3	Sequence 3, Appl
393	16.2	1.0	38	10	US-09-874-547-62	Sequence 62, Appl	466	16	1.0	37	10	US-09-788-209A-3	Sequence 821, App
394	16.2	1.0	38	10	US-09-874-547-76	Sequence 76, Appl	467	16	1.0	38	9	US-09-864-785-821	Sequence 821, App
395	16.2	1.0	38	10	US-09-756-095-30	Sequence 30, Appl	468	16	1.0	38	9	US-09-864-785-874	Sequence 874, App
396	16.2	1.0	39	9	US-09-925-664-4	Sequence 4, Appl	469	16	1.0	38	9	US-09-864-785-1097	Sequence 1097, Ap
397	16.2	1.0	39	9	US-09-925-664-5	Sequence 5, Appl	470	16	1.0	38	9	US-09-864-785-1097	Sequence 1212, Ap
398	16.2	1.0	41	9	US-09-998-425-52	Sequence 52, Appl	471	16	1.0	39	9	US-09-966-140-22	Sequence 22, Appl
399	16.2	1.0	41	9	US-09-997-977-52	Sequence 52, Appl	472	16	1.0	39	9	US-09-925-664-60	Sequence 60, Appl
400	16.2	1.0	42	9	US-09-862-993-2	Sequence 2, Appl	473	16	1.0	39	10	US-09-469-522-15	Sequence 23, Appl
401	16.2	1.0	42	9	US-10-038-723-78	Sequence 74, Appl	474	16	1.0	39	10	US-09-469-522-15	Sequence 15, Appl
402	16.2	1.0	42	10	US-09-727-311-44	Sequence 48, Appl	475	16	1.0	40	10	US-09-245-802-11	Sequence 11, Appl
403	16.2	1.0	42	10	US-09-790-417-233	Sequence 233, App	476	16	1.0	41	9	US-09-185-904A-17	Sequence 17, Appl
404	16.2	1.0	42	10	US-09-843-856-7	Sequence 7, Appl	477	16	1.0	41	10	US-09-811-094-17	Sequence 17, Appl
405	16.2	1.0	42	10	US-09-765-111A-9	Sequence 9, Appl	478	16	1.0	41	10	US-09-811-094-17	Sequence 38, Appl
406	16.2	1.0	43	9	US-09-905-291A-173	Sequence 173, App	479	16	1.0	42	10	US-09-848-164-38	Sequence 38, Appl
407	16.2	1.0	43	9	US-09-902-653-173	Sequence 173, App	480	16	1.0	42	10	US-09-780-752-4	Sequence 4, Appl
408	16.2	1.0	43	9	US-09-907-824-173	Sequence 173, App	481	16	1.0	42	10	US-09-780-752-99	Sequence 99, Appl
409	16.2	1.0	43	9	US-09-907-841-173	Sequence 173, App	482	16	1.0	42	10	US-09-907-824-37	Sequence 37, Appl
410	16.2	1.0	43	9	US-09-904-011-173	Sequence 173, App	483	16	1.0	43	9	US-09-907-841-37	Sequence 37, Appl
411	16.2	1.0	43	9	US-09-906-742-173	Sequence 173, App	484	16	1.0	43	9	US-09-907-841-37	Sequence 37, Appl
412	16.2	1.0	43	9	US-09-906-838-173	Sequence 173, App	485	16	1.0	43	10	US-09-766-916-12	Sequence 12, Appl
413	16.2	1.0	43	9	US-09-907-613-173	Sequence 173, App	486	16	1.0	43	10	US-09-766-916-12	Sequence 12, Appl
414	16.2	1.0	43	9	US-09-907-942-173	Sequence 173, App	487	16	1.0	44	9	US-09-252-150-48	Sequence 48, Appl
415	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	488	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
416	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	489	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
417	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	490	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
418	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	491	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
419	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	492	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
420	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	493	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
421	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	494	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
422	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	495	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
423	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	496	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
424	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	497	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
425	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	498	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
426	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	499	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
427	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	500	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
428	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	501	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
429	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	502	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
430	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	503	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
431	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	504	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
432	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	505	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
433	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	506	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
434	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	507	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
435	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	508	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
436	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	509	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
437	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	510	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
438	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	511	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
439	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	512	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
440	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	513	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
441	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	514	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
442	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	515	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
443	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	516	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
444	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	517	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
445	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	518	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
446	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	519	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
447	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	520	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
448	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	521	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
449	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	522	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
450	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	523	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
451	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	524	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
452	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	525	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
453	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	526	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
454	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	527	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
455	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	528	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
456	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	529	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
457	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	530	16	1.0	44	9	US-09-996-634-159	Sequence 159, App

C 531	15.8	1.0	25	10	US-09-866-108-10883	Sequence 10883, A	604	15.8	1.0	45	9	US-09-904-011-94	Sequence 94, Appl
C 532	15.8	1.0	25	10	US-09-866-108-10884	Sequence 10884, A	605	15.8	1.0	45	9	US-09-906-742-94	Sequence 94, Appl
C 533	15.8	1.0	25	10	US-09-866-108-10885	Sequence 10885, A	606	15.8	1.0	45	9	US-10-211-069-33	Sequence 33, Appl
C 534	15.8	1.0	25	10	US-09-866-108-10886	Sequence 10886, A	607	15.8	1.0	45	9	US-09-906-838-94	Sequence 94, Appl
C 535	15.8	1.0	25	10	US-09-866-108-10887	Sequence 10887, A	608	15.8	1.0	45	9	US-09-907-613-94	Sequence 94, Appl
C 536	15.8	1.0	25	10	US-09-866-108-10888	Sequence 10888, A	609	15.8	1.0	45	9	US-09-907-942-94	Sequence 94, Appl
C 537	15.8	1.0	25	10	US-09-866-108-10889	Sequence 10889, A	610	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 538	15.8	1.0	27	9	US-10-041-090-2	Sequence 2, Appl1	611	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 539	15.8	1.0	27	9	US-09-877-705A-61	Sequence 61, Appl	612	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 540	15.8	1.0	27	9	US-09-877-705A-62	Sequence 62, Appl	613	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 541	15.8	1.0	27	9	US-09-877-738A-61	Sequence 61, Appl	614	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 542	15.8	1.0	27	9	US-09-877-738A-62	Sequence 62, Appl	615	15.8	1.0	45	9	US-09-906-646-94	Sequence 94, Appl
C 543	15.8	1.0	27	10	US-09-735-363A-3	Sequence 3, Appl1	616	15.8	1.0	45	9	US-09-906-700-94	Sequence 94, Appl
C 544	15.8	1.0	27	10	US-09-735-363A-61	Sequence 68, Appl	617	15.8	1.0	45	9	US-09-902-903-94	Sequence 94, Appl
C 545	15.8	1.0	27	10	US-09-894-633A-41	Sequence 41, Appl	618	15.8	1.0	45	9	US-09-903-786-94	Sequence 94, Appl
C 546	15.8	1.0	27	12	US-10-017-828-14	Sequence 14, Appl	C 619	15.8	1.0	45	10	US-09-742-693-2	Sequence 94, Appl
C 547	15.8	1.0	28	9	US-09-944-413-9	Sequence 9, Appl1	620	15.8	1.0	45	10	US-09-999-320-94	Sequence 2, Appl1
C 548	15.8	1.0	28	9	US-09-944-403-9	Sequence 9, Appl1	621	15.8	1.0	45	10	US-09-772-719-17	Sequence 94, Appl
C 549	15.8	1.0	28	9	US-09-944-403-9	Sequence 9, Appl1	622	15.8	1.0	45	10	US-09-896-650A-1	Sequence 17, Appl
C 550	15.8	1.0	28	9	US-09-944-403-9	Sequence 9, Appl1	623	15.8	1.0	45	10	US-09-909-088B-94	Sequence 1, Appl1
C 551	15.8	1.0	28	9	US-09-944-403-9	Sequence 9, Appl1	624	15.8	1.0	46	10	US-09-900-379-64	Sequence 94, Appl
C 552	15.8	1.0	28	9	US-09-944-403-9	Sequence 9, Appl1	625	15.8	1.0	46	10	US-09-216-393-362	Sequence 64, Appl
C 553	15.8	1.0	28	10	US-09-866-028-9	Sequence 9, Appl1	626	15.8	1.0	46	10	US-09-766-898-14	Sequence 362, App
C 554	15.8	1.0	28	10	US-09-944-449-9	Sequence 9, Appl1	627	15.8	1.0	46	10	US-09-766-898-25	Sequence 14, Appl
C 555	15.8	1.0	28	10	US-09-944-449-9	Sequence 9, Appl1	628	15.8	1.0	46	10	US-09-766-916-14	Sequence 25, Appl
C 556	15.8	1.0	28	10	US-09-945-587-9	Sequence 9, Appl1	629	15.8	1.0	46	10	US-09-766-916-25	Sequence 14, Appl
C 557	15.8	1.0	28	10	US-09-945-587-9	Sequence 9, Appl1	630	15.8	1.0	46	10	US-09-848-164-64	Sequence 25, Appl
C 558	15.8	1.0	28	10	US-09-944-396-9	Sequence 9, Appl1	631	15.8	1.0	46	10	US-09-848-164-64	Sequence 64, Appl
C 559	15.8	1.0	28	10	US-09-944-097-9	Sequence 9, Appl1	632	15.8	1.0	47	10	US-09-785-632A-13	Sequence 5, Appl1
C 560	15.8	1.0	28	10	US-09-944-432-9	Sequence 9, Appl1	633	15.8	1.0	47	10	US-09-880-732-56	Sequence 13, Appl1
C 561	15.8	1.0	28	10	US-09-943-762-9	Sequence 9, Appl1	634	15.8	1.0	49	9	US-10-106-092-7	Sequence 56, Appl
C 562	15.8	1.0	28	10	US-09-943-762-9	Sequence 9, Appl1	C 635	15.8	1.0	50	9	US-10-103-002-12	Sequence 7, Appl1
C 563	15.8	1.0	28	10	US-09-943-762-9	Sequence 9, Appl1	C 636	15.8	1.0	50	9	US-10-103-002-13	Sequence 12, Appl
C 564	15.8	1.0	30	9	US-09-953-052-11	Sequence 11, Appl	C 637	15.8	1.0	50	9	US-09-943-722-20	Sequence 1, Appl
C 565	15.8	1.0	30	9	US-09-953-052-16	Sequence 16, Appl	638	15.8	1.0	50	10	US-09-227-913-1	Sequence 20, Appl
C 566	15.8	1.0	30	10	US-10-010-920-40	Sequence 40, Appl	C 639	15.8	1.0	50	10	US-09-227-913-3	Sequence 1, Appl1
C 567	15.8	1.0	30	10	US-09-292-973-18	Sequence 18, Appl	640	15.6	1.0	25	9	US-09-872-462-440	Sequence 29, Appl
C 568	15.8	1.0	30	10	US-09-965-099-27	Sequence 27, Appl	641	15.6	1.0	25	9	US-09-872-462-441	Sequence 440, App
C 569	15.8	1.0	30	12	US-10-051-852-27	Sequence 27, Appl	642	15.6	1.0	25	9	US-09-866-108-3139	Sequence 441, App
C 570	15.8	1.0	31	10	US-09-778-900A-12	Sequence 12, Appl	643	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 571	15.8	1.0	31	10	US-09-801-274-40	Sequence 40, Appl	644	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 572	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	645	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 573	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	646	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 574	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	647	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 575	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	648	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 576	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	649	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 577	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	650	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 578	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	651	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 579	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	652	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 580	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	653	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 581	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	654	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 582	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	655	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 583	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	656	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 584	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	657	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 585	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	658	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 586	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	659	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 587	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	660	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 588	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	661	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 589	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	662	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 590	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	663	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 591	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	664	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 592	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	665	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 593	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	666	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 594	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	667	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 595	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	668	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 596	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	669	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 597	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	670	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 598	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	671	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 599	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	672	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 600	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	673	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 601	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	674	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 602	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	675	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, App
C 603	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, App	C 676	15.6	1.0	34	9	US-09-895-793-901	Sequence 901, App

C 677	15.6	1.0	34	10	US-09-759-143-901	Sequence 901, App	C 750	15.6	1.0	45	9	US-10-125-751-22	Sequence 22, Appl
C 678	15.6	1.0	34	10	US-09-780-669-901	Sequence 901, App	C 751	15.6	1.0	45	9	US-10-036-949-47	Sequence 47, Appl
C 679	15.6	1.0	34	10	US-09-822-827-901	Sequence 901, App	C 752	15.6	1.0	45	10	US-09-179-536B-253	Sequence 253, App
C 680	15.6	1.0	35	10	US-09-861-257-100	Sequence 100, App	C 753	15.6	1.0	45	10	US-09-808-027-10	Sequence 10, Appl
C 681	15.6	1.0	35	10	US-09-735-705-384	Sequence 384, App	C 754	15.6	1.0	45	10	US-09-740-668A-72	Sequence 72, Appl
C 682	15.6	1.0	35	10	US-09-850-716A-384	Sequence 384, App	C 755	15.6	1.0	45	10	US-09-893-615-69	Sequence 69, Appl
C 683	15.6	1.0	35	10	US-09-897-778-384	Sequence 384, App	C 756	15.6	1.0	45	10	US-09-918-029-22	Sequence 22, Appl
C 684	15.6	1.0	36	9	US-09-991-209-62	Sequence 62, App	C 757	15.6	1.0	45	10	US-09-900-062-47	Sequence 47, Appl
C 685	15.6	1.0	36	9	US-09-873-676-68	Sequence 68, Appl	C 758	15.6	1.0	45	10	US-09-795-006A-18	Sequence 18, Appl
C 686	15.6	1.0	36	10	US-09-974-248-5	Sequence 5, Appl1	C 759	15.6	1.0	45	10	US-09-795-006A-18	Sequence 38, Appl
C 687	15.6	1.0	37	10	US-09-250-611-105	Sequence 105, App	C 760	15.6	1.0	45	12	US-10-038-221-22	Sequence 22, Appl
C 688	15.6	1.0	38	9	US-10-028-410-4	Sequence 4, Appl1	C 761	15.6	1.0	46	9	US-09-978-295A-621	Sequence 621, App
C 689	15.6	1.0	38	9	US-10-125-635A-370	Sequence 370, App	C 762	15.6	1.0	46	9	US-09-978-697-621	Sequence 621, App
C 690	15.6	1.0	38	10	US-09-874-547-69	Sequence 69, Appl	C 763	15.6	1.0	46	9	US-09-978-192A-621	Sequence 621, App
C 691	15.6	1.0	38	10	US-09-876-527-18	Sequence 18, Appl	C 764	15.6	1.0	46	9	US-09-999-832A-621	Sequence 621, App
C 692	15.6	1.0	38	10	US-09-758-386-4	Sequence 4, Appl1	C 765	15.6	1.0	46	9	US-09-900-379-67	Sequence 67, Appl
C 693	15.6	1.0	39	10	US-09-784-990-25	Sequence 25, Appl	C 766	15.6	1.0	46	9	US-09-978-189-621	Sequence 621, App
C 694	15.6	1.0	39	10	US-09-179-536B-247	Sequence 247, App	C 767	15.6	1.0	46	9	US-09-991-162-14	Sequence 14, Appl
C 695	15.6	1.0	39	10	US-09-854-799-6	Sequence 6, App	C 768	15.6	1.0	46	9	US-09-848-164-67	Sequence 67, Appl
C 696	15.6	1.0	39	10	US-09-469-522-14	Sequence 14, Appl	C 769	15.6	1.0	46	10	US-09-848-164-68	Sequence 68, Appl
C 697	15.6	1.0	39	10	US-10-158-711-1	Sequence 1, Appl1	C 770	15.6	1.0	46	10	US-09-179-536B-254	Sequence 254, App
C 698	15.6	1.0	40	9	US-10-158-711-1	Sequence 1, Appl1	C 771	15.6	1.0	46	10	US-09-978-295A-378	Sequence 378, App
C 699	15.6	1.0	40	9	US-09-179-536B-248	Sequence 248, App	C 772	15.6	1.0	46	10	US-09-853-526-248	Sequence 248, App
C 700	15.6	1.0	40	10	US-09-931-184-6	Sequence 6, Appl	C 773	15.6	1.0	47	9	US-09-978-697-378	Sequence 378, App
C 701	15.6	1.0	40	10	US-09-338-351-29	Sequence 29, Appl	C 774	15.6	1.0	47	9	US-09-978-192A-378	Sequence 378, App
C 702	15.6	1.0	41	10	US-09-238-351-40	Sequence 40, Appl	C 775	15.6	1.0	47	9	US-09-999-832A-378	Sequence 378, App
C 703	15.6	1.0	41	10	US-09-179-536B-249	Sequence 249, App	C 776	15.6	1.0	47	9	US-09-978-189-378	Sequence 378, App
C 704	15.6	1.0	41	10	US-09-858-994-12	Sequence 12, Appl	C 777	15.6	1.0	47	9	US-09-735-056-24	Sequence 24, App
C 705	15.6	1.0	41	10	US-09-185-904A-29	Sequence 29, Appl	C 778	15.6	1.0	47	9	US-09-978-608A-378	Sequence 378, App
C 706	15.6	1.0	42	9	US-09-887-784-11	Sequence 11, Appl	C 779	15.6	1.0	47	9	US-09-179-536B-255	Sequence 255, App
C 707	15.6	1.0	42	9	US-09-887-784-12	Sequence 12, Appl	C 780	15.6	1.0	47	10	US-09-785-632A-12	Sequence 12, Appl
C 708	15.6	1.0	42	10	US-09-811-094-35	Sequence 35, Appl	C 781	15.6	1.0	47	10	US-09-785-632A-12	Sequence 12, Appl
C 709	15.6	1.0	42	10	US-09-811-094-35	Sequence 35, Appl	C 782	15.6	1.0	47	10	US-09-901-484A-248	Sequence 248, App
C 710	15.6	1.0	42	10	US-09-810-644-29	Sequence 29, Appl	C 783	15.6	1.0	47	10	US-09-901-484A-248	Sequence 248, App
C 711	15.6	1.0	42	10	US-09-810-644-35	Sequence 35, Appl	C 784	15.6	1.0	47	10	US-09-864-785-3224	Sequence 3224, App
C 712	15.6	1.0	42	10	US-09-179-536B-250	Sequence 250, App	C 785	15.6	1.0	48	9	US-09-864-785-3224	Sequence 256, App
C 713	15.6	1.0	42	10	US-09-792-630-48	Sequence 48, Appl	C 786	15.6	1.0	48	9	US-09-880-732-55	Sequence 55, Appl
C 714	15.6	1.0	43	9	US-09-944-160-17	Sequence 17, Appl	C 787	15.6	1.0	48	10	US-09-938-901-13	Sequence 13, Appl
C 715	15.6	1.0	43	9	US-10-080-376-48	Sequence 48, Appl	C 788	15.6	1.0	48	10	US-09-938-901-13	Sequence 13, Appl
C 716	15.6	1.0	43	9	US-10-033-297-97	Sequence 97, Appl	C 789	15.6	1.0	49	9	US-10-125-751-17	Sequence 17, Appl
C 717	15.6	1.0	43	9	US-09-991-209-80	Sequence 80, Appl	C 790	15.6	1.0	49	10	US-09-912-552-17	Sequence 17, Appl
C 718	15.6	1.0	43	9	US-09-953-351-48	Sequence 48, Appl	C 791	15.6	1.0	49	10	US-10-066-500-20	Sequence 20, Appl
C 719	15.6	1.0	43	9	US-09-940-244-97	Sequence 97, Appl	C 792	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 720	15.6	1.0	43	10	US-09-179-536B-251	Sequence 251, App	C 793	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 721	15.6	1.0	43	10	US-09-027-287-40	Sequence 40, Appl	C 794	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 722	15.6	1.0	43	10	US-09-252-656B-40	Sequence 40, Appl	C 795	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 723	15.6	1.0	43	10	US-09-905-291A-21	Sequence 21, Appl	C 796	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 724	15.6	1.0	44	9	US-09-908-153B-9	Sequence 9, Appl1	C 797	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 725	15.6	1.0	44	9	US-09-902-853-21	Sequence 21, Appl	C 798	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 726	15.6	1.0	44	9	US-09-907-824-21	Sequence 21, Appl	C 799	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 727	15.6	1.0	44	9	US-09-907-841-21	Sequence 21, Appl	C 800	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 728	15.6	1.0	44	9	US-09-904-011-21	Sequence 106, App	C 801	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, Appl
C 729	15.6	1.0	44	9	US-09-749-873-106	Sequence 21, Appl	C 802	15.6	1.0	50	10	US-09-179-536B-258	Sequence 258, App
C 730	15.6	1.0	44	9	US-09-905-747-21	Sequence 21, Appl	C 803	15.6	1.0	50	10	US-09-920-171-38	Sequence 38, Appl
C 731	15.6	1.0	44	9	US-09-905-838-21	Sequence 21, Appl	C 804	15.6	1.0	50	10	US-09-918-029-17	Sequence 17, Appl
C 732	15.6	1.0	44	9	US-09-907-613-21	Sequence 21, Appl	C 805	15.6	1.0	50	10	US-09-920-300A-1257	Sequence 1257, App
C 733	15.6	1.0	44	9	US-09-907-942-21	Sequence 21, Appl	C 806	15.6	1.0	50	10	US-09-739-707-7	Sequence 7, Appl1
C 734	15.6	1.0	44	9	US-09-904-820-21	Sequence 21, Appl	C 807	15.6	1.0	50	12	US-10-038-221-22	Sequence 22, Appl
C 735	15.6	1.0	44	9	US-09-904-859-21	Sequence 21, Appl	C 808	15.6	1.0	50	12	US-10-038-221-22	Sequence 22, Appl
C 736	15.6	1.0	44	9	US-09-904-859-21	Sequence 21, Appl	C 809	15.6	1.0	50	12	US-10-038-221-22	Sequence 22, Appl
C 737	15.6	1.0	44	9	US-09-909-204-21	Sequence 21, Appl	C 810	15.6	1.0	50	12	US-10-038-221-22	Sequence 22, Appl
C 738	15.6	1.0	44	9	US-09-904-786-21	Sequence 21, Appl	C 811	15.6	1.0	50	12	US-10-038-221-22	Sequence 22, Appl
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RESULT 2
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; Sequence 37, Application US/09883848A
; Publication No. US2003002819A1
; GENERAL INFORMATION:
; APPLICANT: Ling, L.
; APPLICANT: Sanicola-Nagel, M.
; TITLE OF INVENTION: ANGIOGENESIS-MODULATING COMPOSITIONS AND USES
; TITLE REFERENCE: C1BT-P01-119
; CURRENT FILING DATE: 2001-06-18
; CURRENT APPLICATION NUMBER: US/09/883,848A
; PRIOR FILING DATE: 2000-06-16
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 37
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Oligonucleotide
US-09-883-848A-37

Query Match      1.4%; Score 22; DB 9; Length 29;
Best Local Similarity 100.0%; Pred. No. 6.2e+04;
Matches 22; Conservative 0; Mismatches 0; Indels 0;

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RESULT 3
US-09-828-034-7/c
; Sequence 7, Application US/09828034
; Patent No. US20020064771a1
; GENERAL INFORMATION:
; APPLICANT: Zhong, Weidong
; APPLICANT: Hong, Zhi
; APPLICANT: Ferrari, Eric
; TITLE OF INVENTION: HCV REPLICASE COMPLEXES
; FILE REFERENCE: IN01165
; CURRENT APPLICATION NUMBER: US/09/828,034
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: U.S. 60/195,852
; PRIOR FILING DATE: 2000-04-06
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 30
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic RNA
US-09-828-034-7

Query Match          1.4%; Score 22; DB 10; Length 30;
Best Local Similarity 83.3%; Pred. No. 6-2e+04;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0
QY 1546 GGGGGCCGGGGAGGCGGCGCGGAGAGGGGC 1575
      ||||| ||||| ||||| ||||| |||||
00 GGGGGCGGGGCGGGGGCGGGCGGGCGGGGCGG 1

```

RESULT 4  
US-10-006-856A-151



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; Sequence 151, Application US/10006856A
; Publication No. US20030044841A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillen, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C14
; CURRENT APPLICATION NUMBER: US/10/006,856A
; PRIOR FILING DATE: 2002-05-10
; NUMBER OF SEQ ID NOS: 477
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 151
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide probe
US-10-006-856A-151
```

```
Query Match 1.4%; Score 21.4; DB 9; Length 45;
Best Local Similarity 71.8%; Pred. No. 8.3e+04;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
QY 763 GGTGCACCTGAGCAGCGCGCACCACTGCTGTGAAGA 801
Db 4 GATGCCACACTATCAAGGAGCAGCAAACTGCTGAAGCA 42
```

```
RESULT 5
US-10-135-984-6
; Sequence 6, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weitzman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/286951
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 45
; TYPE: DNA
; ORGANISM: adeno-associated virus
US-10-135-984-6
```

```
Query Match 1.3%; Score 20.8; DB 9; Length 45;
Best Local Similarity 70.0%; Pred. No. 1.1e+05;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY 1 GCGAGGACCCAGCAGGAGAGAGCGCGGCGGAGCCG 40
Db 5 GTGAGCGAGCGAGCGCGAGGTGAGCGAGCGCGCGCAG 44
```

RESULT 6

```
US-10-135-984-4
; Sequence 4, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weitzman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/286951
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 46
; TYPE: DNA
; ORGANISM: adeno-associated virus
US-10-135-984-4
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```
Query Match 1.3%; Score 20.8; DB 9; Length 46;
Best Local Similarity 70.0%; Pred. No. 1.1e+05;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
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```
QY 1 GCGAGGACCCAGCAGGAGAGAGCGCGGCGGAGCCG 40
Db 6 GTGAGCGAGCGAGCGCGAGGTGAGCGAGCGCGCGCAG 45
```

```
RESULT 7
US-10-135-984-5/C
; Sequence 5, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weitzman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/286951
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 46
; TYPE: DNA
; ORGANISM: adeno-associated virus
US-10-135-984-5
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Query Match 1.3%; Score 20.8; DB 9; Length 46;
Best Local Similarity 70.0%; Pred. No. 1.1e+05;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
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```
QY 1 GCGAGGACCCAGCAGGAGAGAGCGCGGCGGAGCCG 40
Db 45 GTGAGCGAGCGAGCGCGAGGTGAGCGAGCGCGCGCAG 6
```

```
RESULT 8
US-10-135-984-7/C
; Sequence 7, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weitzman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; PRIOR FILING DATE: 2002-08-05
```



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; TITLE OF INVENTION: No. US20020142438A1e1 Pectate Lyases
; FILE REFERENCE: 5378.200-US
; CURRENT APPLICATION NUMBER: US/10/072,152
; CURRENT FILING DATE: 2002-02-07
; PRIOR APPLICATION NUMBER: US/09/198,955
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1343/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,249
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 09/073,684
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 09/184,217
; PRIOR FILING DATE: 1998-11-02
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 32
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
; US-10-072-152-32

Query Match 1.3%; Score 20.2; DB 12; Length 48;
Best Local Similarity 68.3%; Pred. No. 1.4e+05;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

OY 1451 TGGTACTGCGACGCTGCTACCAATAGACACCTGCTCCT 1491
Db 5 TGAGACGGCGCGCGCTATACACACTGCGACGGGTTCTT 45

RESULT 13
; US-09-992-598-122
; Sequence 122, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1020
; CURRENT APPLICATION NUMBER: US/09/992,598
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
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PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090535  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090540  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090542  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
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PRIOR APPLICATION NUMBER: 60/090678  
PRIOR FILING DATE: 1998-06-25  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090694  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090695  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26

PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 1.38; Score 20; DB 9; Length 45;  
Best Local Similarity 65.98; Pred. No. 1.5e+05;  
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCCAGGTGCTGCCGACGCTCCGGTCCGGGGCCACCGCGG 1443  
DB 2 GCTCCTCCTGCTGCGCGCGCTGCTGCGGGGCTTCCCGCGG 45

RESULT 14  
US-09-989-293A-122  
Sequence 122, Application US/09989293A  
Patent No. US20020177164A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltsen, Mary E.  
APPLICANT: Goddard, Audrey J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C66  
CURRENT APPLICATION NUMBER: US/09/989,293A  
CURRENT FILING DATE: 2001-11-20  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770

1	PRIOR FILING DATE: 1997-11-24	1	PRIOR APPLICATION NUMBER: 60/089538
2	PRIOR APPLICATION NUMBER: 60/075945	2	PRIOR FILING DATE: 1998-06-17
3	PRIOR FILING DATE: 1998-02-25	3	PRIOR APPLICATION NUMBER: 60/089598
4	PRIOR APPLICATION NUMBER: 60/078910	4	PRIOR FILING DATE: 1998-06-17
5	PRIOR FILING DATE: 1998-03-20	5	PRIOR APPLICATION NUMBER: 60/089599
6	PRIOR APPLICATION NUMBER: 60/083322	6	PRIOR FILING DATE: 1998-06-17
7	PRIOR FILING DATE: 1998-04-28	7	PRIOR APPLICATION NUMBER: 60/089600
8	PRIOR APPLICATION NUMBER: 60/084600	8	PRIOR FILING DATE: 1998-06-17
9	PRIOR FILING DATE: 1998-05-07	9	PRIOR APPLICATION NUMBER: 60/089653
10	PRIOR APPLICATION NUMBER: 60/087106	10	PRIOR FILING DATE: 1998-06-17
11	PRIOR FILING DATE: 1998-05-28	11	PRIOR APPLICATION NUMBER: 60/089801
12	PRIOR APPLICATION NUMBER: 60/087607	12	PRIOR FILING DATE: 1998-06-18
13	PRIOR FILING DATE: 1998-06-02	13	PRIOR APPLICATION NUMBER: 60/089907
14	PRIOR APPLICATION NUMBER: 60/087609	14	PRIOR FILING DATE: 1998-06-18
15	PRIOR FILING DATE: 1998-06-02	15	PRIOR APPLICATION NUMBER: 60/089908
16	PRIOR APPLICATION NUMBER: 60/087759	16	PRIOR FILING DATE: 1998-06-18
17	PRIOR FILING DATE: 1998-06-02	17	PRIOR APPLICATION NUMBER: 60/089947
18	PRIOR APPLICATION NUMBER: 60/087827	18	PRIOR FILING DATE: 1998-06-19
19	PRIOR FILING DATE: 1998-06-03	19	PRIOR APPLICATION NUMBER: 60/089948
20	PRIOR APPLICATION NUMBER: 60/088021	20	PRIOR FILING DATE: 1998-06-19
21	PRIOR FILING DATE: 1998-06-04	21	PRIOR APPLICATION NUMBER: 60/089952
22	PRIOR APPLICATION NUMBER: 60/088025	22	PRIOR FILING DATE: 1998-06-19
23	PRIOR FILING DATE: 1998-06-04	23	PRIOR APPLICATION NUMBER: 60/090246
24	PRIOR APPLICATION NUMBER: 60/088026	24	PRIOR FILING DATE: 1998-06-22
25	PRIOR FILING DATE: 1998-06-04	25	PRIOR APPLICATION NUMBER: 60/090252
26	PRIOR APPLICATION NUMBER: 60/088028	26	PRIOR FILING DATE: 1998-06-22
27	PRIOR FILING DATE: 1998-06-04	27	PRIOR APPLICATION NUMBER: 60/090254
28	PRIOR APPLICATION NUMBER: 60/088029	28	PRIOR FILING DATE: 1998-06-22
29	PRIOR FILING DATE: 1998-06-04	29	PRIOR APPLICATION NUMBER: 60/090349
30	PRIOR APPLICATION NUMBER: 60/088030	30	PRIOR FILING DATE: 1998-06-23
31	PRIOR FILING DATE: 1998-06-04	31	PRIOR APPLICATION NUMBER: 60/090355
32	PRIOR APPLICATION NUMBER: 60/088033	32	PRIOR FILING DATE: 1998-06-23
33	PRIOR FILING DATE: 1998-06-04	33	PRIOR APPLICATION NUMBER: 60/090429
34	PRIOR APPLICATION NUMBER: 60/088326	34	PRIOR FILING DATE: 1998-06-24
35	PRIOR FILING DATE: 1998-06-04	35	PRIOR APPLICATION NUMBER: 60/090431
36	PRIOR APPLICATION NUMBER: 60/088167	36	PRIOR FILING DATE: 1998-06-24
37	PRIOR FILING DATE: 1998-06-05	37	PRIOR APPLICATION NUMBER: 60/090435
38	PRIOR APPLICATION NUMBER: 60/088202	38	PRIOR FILING DATE: 1998-06-24
39	PRIOR FILING DATE: 1998-06-05	39	PRIOR APPLICATION NUMBER: 60/090444
40	PRIOR APPLICATION NUMBER: 60/088212	40	PRIOR FILING DATE: 1998-06-24
41	PRIOR FILING DATE: 1998-06-05	41	PRIOR APPLICATION NUMBER: 60/090445
42	PRIOR APPLICATION NUMBER: 60/088217	42	PRIOR FILING DATE: 1998-06-24
43	PRIOR FILING DATE: 1998-06-05	43	PRIOR APPLICATION NUMBER: 60/090472
44	PRIOR APPLICATION NUMBER: 60/088655	44	PRIOR FILING DATE: 1998-06-24
45	PRIOR FILING DATE: 1998-06-09	45	PRIOR APPLICATION NUMBER: 60/090535
46	PRIOR APPLICATION NUMBER: 60/088734	46	PRIOR FILING DATE: 1998-06-24
47	PRIOR FILING DATE: 1998-06-10	47	PRIOR APPLICATION NUMBER: 60/090540
48	PRIOR APPLICATION NUMBER: 60/088738	48	PRIOR FILING DATE: 1998-06-24
49	PRIOR FILING DATE: 1998-06-10	49	PRIOR APPLICATION NUMBER: 60/090542
50	PRIOR APPLICATION NUMBER: 60/088742	50	PRIOR FILING DATE: 1998-06-24
51	PRIOR FILING DATE: 1998-06-10	51	PRIOR APPLICATION NUMBER: 60/090557
52	PRIOR APPLICATION NUMBER: 60/088810	52	PRIOR FILING DATE: 1998-06-24
53	PRIOR FILING DATE: 1998-06-10	53	PRIOR APPLICATION NUMBER: 60/090676
54	PRIOR APPLICATION NUMBER: 60/088824	54	PRIOR FILING DATE: 1998-06-25
55	PRIOR FILING DATE: 1998-06-10	55	PRIOR APPLICATION NUMBER: 60/090678
56	PRIOR APPLICATION NUMBER: 60/088826	56	PRIOR FILING DATE: 1998-06-25
57	PRIOR FILING DATE: 1998-06-10	57	PRIOR APPLICATION NUMBER: 60/090690
58	PRIOR APPLICATION NUMBER: 60/088858	58	PRIOR FILING DATE: 1998-06-25
59	PRIOR FILING DATE: 1998-06-11	59	PRIOR APPLICATION NUMBER: 60/090694
60	PRIOR APPLICATION NUMBER: 60/088861	60	PRIOR FILING DATE: 1998-06-25
61	PRIOR FILING DATE: 1998-06-11	61	PRIOR APPLICATION NUMBER: 60/090695
62	PRIOR APPLICATION NUMBER: 60/088876	62	PRIOR FILING DATE: 1998-06-25
63	PRIOR FILING DATE: 1998-06-11	63	PRIOR APPLICATION NUMBER: 60/090696
64	PRIOR APPLICATION NUMBER: 60/089105	64	PRIOR FILING DATE: 1998-06-25
65	PRIOR FILING DATE: 1998-06-12	65	PRIOR APPLICATION NUMBER: 60/090862
66	PRIOR APPLICATION NUMBER: 60/089440	66	PRIOR FILING DATE: 1998-06-26
67	PRIOR FILING DATE: 1998-06-16	67	PRIOR APPLICATION NUMBER: 60/090863
68	PRIOR APPLICATION NUMBER: 60/089512	68	PRIOR FILING DATE: 1998-06-26
69	PRIOR FILING DATE: 1998-06-16		

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PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match
Best Local Similarity 1.3%; Score 20; DB 9; Length 45;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCAGTCTGCTCCGACGCTCCGGGTCGGGGCCACCGCGG 1443
DB 2 GCTGCTCTGCTGCTCCGCGCTGCTGCTGGGGCCCTTCCCGCGG 45

RESULT 15
US-09-989-735-122
; Sequence 122, Application US/09989735
; Publication No. US20020193299A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferreira, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C61
; CURRENT FILING DATE: 2001-11-19
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28

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PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
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PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
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PRIOR APPLICATION NUMBER: 60/088876
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PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
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PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600

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Query Match      1.3%; Score 20; DB 9; Length 45;
Best local Similarity 65.9%; Pzed No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0;
Gaps 0;

QY 1400 GCTCCAGGCTGCTCCGACGCTCGGGTGGCGGGCCACCGCGG 1443
Db 2 GCGCTCCGCTGCTCCGCGCGCTGCTGCTGGGGGCGCTTCCGCGCG 45

RESULT 16
US-09-990-444-122
; Sequence 122, Application US/09990444
; Publication No. US20020193300A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Getzler, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin L.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumata, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C19
; CURRENT FILING DATE: US/09/990.444
; PRIOR APPLICATION NUMBER: 2001-11-14
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-28
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; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02

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1	PRIOR FILING DATE: 1998-06-02	
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3	PRIOR FILING DATE: 1998-06-02	
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5	PRIOR FILING DATE: 1998-06-03	
6	PRIOR APPLICATION NUMBER: 60/088021	
7	PRIOR FILING DATE: 1998-06-04	
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9	PRIOR FILING DATE: 1998-06-04	
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11	PRIOR FILING DATE: 1998-06-04	
12	PRIOR APPLICATION NUMBER: 60/088028	
13	PRIOR FILING DATE: 1998-06-04	
14	PRIOR APPLICATION NUMBER: 60/088029	
15	PRIOR FILING DATE: 1998-06-04	
16	PRIOR APPLICATION NUMBER: 60/088030	
17	PRIOR FILING DATE: 1998-06-04	
18	PRIOR APPLICATION NUMBER: 60/088033	
19	PRIOR FILING DATE: 1998-06-04	
20	PRIOR APPLICATION NUMBER: 60/088326	
21	PRIOR FILING DATE: 1998-06-04	
22	PRIOR APPLICATION NUMBER: 60/088167	
23	PRIOR FILING DATE: 1998-06-05	
24	PRIOR APPLICATION NUMBER: 60/088202	
25	PRIOR FILING DATE: 1998-06-05	
26	PRIOR APPLICATION NUMBER: 60/088212	
27	PRIOR FILING DATE: 1998-06-05	
28	PRIOR APPLICATION NUMBER: 60/088217	
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35	PRIOR FILING DATE: 1998-06-10	
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37	PRIOR FILING DATE: 1998-06-10	
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39	PRIOR FILING DATE: 1998-06-10	
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51	PRIOR FILING DATE: 1998-06-12	
52	PRIOR APPLICATION NUMBER: 60/089440	
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67	PRIOR FILING DATE: 1998-06-17	
68	PRIOR APPLICATION NUMBER: 60/089653	
69	PRIOR FILING DATE: 1998-06-17	
70	PRIOR APPLICATION NUMBER: 60/089801	
71	PRIOR FILING DATE: 1998-06-18	
72	PRIOR APPLICATION NUMBER: 60/089907	
73	PRIOR FILING DATE: 1998-06-18	

PRIOR APPLICATION NUMBER: 60/0895908	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/0895947	PRIOR FILING DATE: 1998-06-19	PRIOR APPLICATION NUMBER: 60/0895948	PRIOR FILING DATE: 1998-06-19	PRIOR APPLICATION NUMBER: 60/0899552	PRIOR FILING DATE: 1998-06-19	PRIOR APPLICATION NUMBER: 60/090246	PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090252	PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090254	PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090349	PRIOR FILING DATE: 1998-06-23	PRIOR APPLICATION NUMBER: 60/090355	PRIOR FILING DATE: 1998-06-23	PRIOR APPLICATION NUMBER: 60/090429	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090431	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090435	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090444	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090445	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090472	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090535	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090540	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090542	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090557	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090676	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090678	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090690	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090694	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090695	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090696	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090682	PRIOR FILING DATE: 1998-06-26	PRIOR APPLICATION NUMBER: 60/090683	PRIOR FILING DATE: 1998-06-26	PRIOR APPLICATION NUMBER: 60/091360	PRIOR FILING DATE: 1998-07-01	PRIOR APPLICATION NUMBER: 60/091478	PRIOR FILING DATE: 1998-07-02	PRIOR APPLICATION NUMBER: 60/091544	PRIOR FILING DATE: 1998-07-01	PRIOR APPLICATION NUMBER: 60/091519	PRIOR FILING DATE: 1998-07-02	PRIOR APPLICATION NUMBER: 60/091626	PRIOR FILING DATE: 1998-07-02	PRIOR APPLICATION NUMBER: 60/091633	PRIOR FILING DATE: 1998-07-02	PRIOR APPLICATION NUMBER: 60/091978	PRIOR FILING DATE: 1998-07-07	PRIOR APPLICATION NUMBER: 60/091982	PRIOR FILING DATE: 1998-07-07	PRIOR APPLICATION NUMBER: 60/092182	PRIOR FILING DATE: 1998-07-09
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Query Match 1.3%; Score 20; DB 9; Length 45;  
Best Local Similarity 65.9%; Pred. No. 1.5e+05;  
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCCAGTCTGCTCCGACGCTCCGCGGCGGCGCACCGCGG 1443  
DB 2 GCTGCTCTGCTGCTCCGCGCTGCTGCGGCGGCGCTCCCGCGG 45

## RESULT 17

US-09-989-730-122  
; Sequence 122, Application US/09989730  
; Publication No. US20020197674A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter.  
; APPLICANT: Gertsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C69  
; CURRENT APPLICATION NUMBER: US/09/989,730  
; PRIOR FILING DATE: 2001-11-20  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
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; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
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; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
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PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;  
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Publication No. US20020198148A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
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APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C14  
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PRIOR FILING DATE: 1998-06-04  
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APPLICANT: Ashkenazi, Avi J.  
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APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
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CURRENT APPLICATION NUMBER: US/09/991,181  
CURRENT FILING DATE: 2001-11-16  
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Query Match      1.3%  Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
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QY 1400 GCTCCAGTCTCCGACGCTCCGGGTGCGGCGCCACCGCGG 1443
Db      2 GCTGCTCTCTGCTCCGCGCTCTGCTGCGGCGCTTCCCGCGG 45

RESULT 20
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: Publication No. US20020198149A1
: GENERAL INFORMATION:
: APPLICANT: Askenazi, Avi J.
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Baton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Fong, Sherman

: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gerltsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, J. Christopher
: APPLICANT: Gurney, Austin L.
: APPLICANT: Kijavlin, Ivar J.
: APPLICANT: Napier, Mary A.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: P2730PIC11
: CURRENT FILING DATE: 2002-11-14
: PRIOR APPLICATION NUMBER: 60/049787
: PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1998-07-07  
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PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;  
Best Local Similarity 65.9%; Pred. No. 1.5e+05;  
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCAGGTGCTCGCGACGCTCCGGGTGCGGGGCGCACCGCGG 1443  
DB 2 GCTGCTCTGCTGCTCGCGCGCTGCTGCGGGGCTTCCCGCGG 45

RESULT 21  
US-09-989-734-122  
Publication 122, Application US/09989734  
Publication No. US20030003531A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, U. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumbar, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC64  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
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Query Match 1.3% Score 20; DB 9; Length 45;  
Best Local Similarity 65.98; Pred. No. 1.5e+05;  
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Oy 1400 GCTCCAGTGTGCTCCGAGCTCCGGGTCGAGGCGCCACCGCGGG 1443  
Db 2 GCTGCTCTGCTGCTGCCGCGTCTGCGGCGCTTCCCGCGGG 45

RESULT 22  
US-09-997-653-122

; Sequence 122, Application US/09997653  
; Publication No. US2003008297A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Bolstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gertsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
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; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Collin K.

APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C38  
CURRENT APPLICATION NUMBER: US/09/997,653  
CURRENT FILING DATE: 2001-11-15  
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; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25

; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
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; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
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; PRIOR FILING DATE: 1998-07-02
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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCGAGTGTGCTGCGGAGCTCCGCGTGGGGGCGCCACCGCGG 1443
Db 2 GCTGCTCTCTGCTGCTGCGCGGCTGCTGCTGCGGCGCTTCCCGCGG 45

RESULT 23
US-09-993-667-122
; Sequence 122, Application US/09993667
; Publication No. US20030022187A1
; GENERAL INFORMATION:
; APPLICANT: Askenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlt, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C4
; CURRENT APPLICATION NUMBER: US/09/993,667
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9	PRIOR FILING DATE: 1997-11-13
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11	PRIOR FILING DATE: 1997-11-24
12	PRIOR APPLICATION NUMBER: 60/075945
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47	PRIOR FILING DATE: 1998-06-05
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8	PRIOR FILING DATE: 1998-06-16	
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71	PRIOR APPLICATION	NUMBER: 60/090666

;; PRIOR FILING DATE: 1998-06-25  
;; PRIOR APPLICATION NUMBER: 60/090862  
;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/090863  
;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/091360  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/091478  
;; PRIOR FILING DATE: 1998-07-02  
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;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;  
Best Local Similarity 65.9%; Pred. No. 1.5e+05;  
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

OY 1400 GCTCAGGTGTCGCGAGCCTCCGGTGGCGGCGCCACCGCGG 1443  
DB 2 GCTGCTCCTGTCGCGCGCTGCTGCTGCGGCGCTTCGCCGCG 45

RESULT 24  
US-10-211-069-35  
;; Sequence 35, Application US/10211069  
;; Publication No. US20030021797A1  
;; GENERAL INFORMATION:  
;; APPLICANT: DATTA, Syamal K  
;; TITLE OF INVENTION: LOCALIZATION OF MAJOR PEPTIDE AUTOPEPTIDES FOR NUCLEOSOME SPECIFIC  
;; FILE REFERENCE: 290-13U1 (53662-5017)  
;; CURRENT APPLICATION NUMBER: US/10/211,069  
;; PRIOR FILING DATE: 2002-08-02  
;; PRIOR APPLICATION NUMBER: US/09/561,490  
;; PRIOR FILING DATE: 2000-04-28  
;; PRIOR APPLICATION NUMBER: US 60/131,448  
;; PRIOR FILING DATE: 1999-04-28  
;; NUMBER OF SEQ ID NOS: 61  
;; SOFTWARE: PatentIn version 3.1  
;; SEQ ID NO 35  
;; LENGTH: 45  
;; TYPE: DNA  
;; ORGANISM: Artificial sequence  
;; FEATURE:  
;; OTHER INFORMATION: Histone fragment  
US-10-211-069-35

Query Match 1.3%; Score 20; DB 9; Length 45;  
Best Local Similarity 65.9%; Pred. No. 1.5e+05;  
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

OY 1260 ACAGCTGGGCGGACCGGCGCTTCGCGCCCTTCGCGCGAC 1303  
DB 2 ACATCTTCGAGCGCATCGCGCGAGCGGCTCGCGCTGCGCGAC 45

RESULT 25  
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;; Sequence 122, Application US/09990438  
;; Publication No. US20030027754A1  
;; GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Botstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerritsen, Mary E.  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, J. Christopher  
;; APPLICANT: Gueney, Austin L.  
;; APPLICANT: Kljavin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730P1C3  
;; CURRENT APPLICATION NUMBER: US/09/990,438  
;; PRIOR FILING DATE: 2001-11-14  
;; PRIOR APPLICATION NUMBER: 60/049787  
;; PRIOR FILING DATE: 1997-06-16  
;; PRIOR APPLICATION NUMBER: 60/062250  
;; PRIOR FILING DATE: 1997-10-17  
;; PRIOR APPLICATION NUMBER: 60/065186  
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 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; score 20; DB 9; length 45;  
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QY 1400 GCTCCAGTCTGCTCCGAGCCTCCGGGTGCGGGGCGCCACGGCGGG 1443  
 Db 2 GCTGCTCTGCTGCGCGCGCTGCTGCTGCGGGGCTTCCTCCGCGGG 45

Search completed: March 14, 2003, 01:18:09  
 Job time : 167 secs

GenCore version 5.1.4.p5.4578  
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 21:47:38 ; Search time 2407 Seconds

(without alignments)  
10604.108 Million cell updates/sec

Title: US-10-001-844-3

Perfect score: 1576

Sequence: 1 gcgagcgccagcgagcgagga.....gagggcgccgagggagggcgcc 1576

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 102860

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

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2: em\_esthum:\*  
3: em\_estlu:\*  
4: em\_estmu:\*  
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6: em\_estpl:\*  
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17: gb\_gss:\*  
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23: em\_gss\_man:\*  
24: em\_gss\_mus:\*  
25: em\_gss\_other:\*  
26: em\_gss\_pro:\*  
27: em\_gss\_rtd:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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4	25	1.6	49	9	BI772215 603056165
5	25	1.6	49	9	AA842027 MBAFCF2D0
6	25	1.6	49	10	AI813244 3G2 Pine
					AV833587 AV833587

7	24.4	1.5	49	12	BF970690
8	24.2	1.5	47	10	AV947640
9	23.8	1.5	45	13	BJ000572
10	23.8	1.5	46	9	BJ000572
11	23.8	1.5	47	10	AI701058
12	23.6	1.5	47	10	AV955412
13	23.6	1.5	47	10	AV949200
14	23.6	1.5	47	17	AV949200
15	23.6	1.5	47	17	AV949200
16	23.6	1.5	47	17	AV949200
17	23.6	1.5	47	17	AV949200
18	23.4	1.5	49	17	AV949200
19	23.4	1.5	49	17	AV949200
20	23.2	1.4	50	14	BO577141
21	22.6	1.4	49	9	AA977986
22	22.6	1.4	50	9	AA977986
23	22.4	1.4	50	12	BO78033
24	22.4	1.4	50	14	BO807914
25	22.2	1.4	43	13	BI547391
26	22.2	1.4	43	13	BI547391
27	22.2	1.4	44	10	AV833550
28	22.2	1.4	44	17	AZ974579
29	22.2	1.4	45	12	BG700027
30	22.2	1.4	31	17	AZ853311
31	22.2	1.4	32	17	AL762365
32	22.2	1.4	33	17	TA95A01P
33	22.2	1.4	35	17	AZ389253
34	22.2	1.4	35	17	AZ389253
35	22.2	1.4	36	17	AZ588848
36	22.2	1.4	36	17	AZ629871
37	22.2	1.4	36	17	AZ643259
38	22.2	1.4	37	17	AZ777125
39	22.2	1.4	37	17	AZ369295
40	22.2	1.4	37	17	AZ654776
41	22.2	1.4	37	17	AZ666510
42	22.2	1.4	38	17	AZ771220
43	22.2	1.4	38	17	AZ655948
44	22.2	1.4	38	17	AZ829800
45	22.2	1.4	38	17	AZ949765
46	22.2	1.4	39	17	AZ643646
47	22.2	1.4	39	17	AZ861762
48	22.2	1.4	39	17	AL757684
49	22.2	1.4	39	17	AL757684
50	22.2	1.4	40	17	AZ789767
51	22.2	1.4	42	17	AZ499950
52	22.2	1.4	42	17	AZ801055
53	22.2	1.4	42	17	TA65A10P
54	22.2	1.4	43	17	AZ407933
55	22.2	1.4	43	17	AZ488464
56	22.2	1.4	43	17	AZ666812
57	22.2	1.4	43	17	AZ764507
58	22.2	1.4	43	17	AZ820833
59	22.2	1.4	44	17	AZ860493
60	22.2	1.4	45	17	AZ331900
61	22.2	1.4	45	17	AZ473613
62	22.2	1.4	45	17	AZ776609
63	22.2	1.4	46	9	AA905936
64	22.2	1.4	46	17	AZ325773
65	22.2	1.4	46	17	AZ777521
66	22.2	1.4	46	17	AZ981881
67	22.2	1.4	48	9	AL637106
68	22.2	1.4	48	17	AZ650456
69	22.2	1.4	49	17	AZ506149
70	22.2	1.4	50	9	AU107936
71	22.2	1.4	50	17	AZ787456
72	21.8	1.4	35	2	HSN009944
73	21.8	1.4	39	17	AZ826077
74	21.8	1.4	42	17	AZ796654
75	21.8	1.4	49	10	AV671476
76	21.8	1.4	49	17	AZ846608
77	21.8	1.4	49	17	BH626797
78	21.6	1.4	50	17	AZ665271
79	21.6	1.4	36	17	AZ462645
			44	12	BG715964

C 80	21.6	1.4	45	17	A2375586	A2375586	1M0129G03	153	20.4	1.3	30	17	A2845409	A2845409	2M0145N10
C 81	21.6	1.4	46	12	BE729845	BE729845	601564766	C 154	20.4	1.3	30	17	A2861881	A2861881	2M0168J17
C 82	21.6	1.4	47	17	A2769421	A2769421	1M0570001	C 155	20.4	1.3	30	17	A2875577	A2875577	2M0190G06
C 83	21.6	1.4	48	17	A2652813	A2652813	1M0526N08	C 156	20.4	1.3	30	17	A2942781	A2942781	2M0203P06
C 84	21.6	1.4	49	17	BH800164	BH800164	1008114G0	C 157	20.4	1.3	31	17	A2325663	A2325663	1M0048M24
C 85	21.4	1.4	31	9	A1682900	A1682900	wc69g04.x	C 158	20.4	1.3	31	17	A2345491	A2345491	1M0080E01
C 86	21.4	1.4	40	17	A2369493	A2369493	1M0120B11	C 159	20.4	1.3	31	17	A2375236	A2375236	1M0128D02
C 87	21.4	1.4	44	17	A2656548	A2656548	1M0532H11	C 160	20.4	1.3	31	17	A2423749	A2423749	1M0203A22
C 88	21.4	1.4	40	17	A2342202	A2342202	1M0075G11	C 161	20.4	1.3	31	17	A2500410	A2500410	1M0338F16
C 89	21.4	1.4	49	10	AV674036	AV674036	AV674036	C 162	20.4	1.3	31	17	A2622680	A2622680	1M0459I10
C 90	21.4	1.4	49	10	AV655544	AV655544	AV655544	C 163	20.4	1.3	31	17	A2638670	A2638670	1M0498M07
C 91	21.2	1.3	42	14	T54684	T54684	y41a05..r1	C 164	20.4	1.3	31	17	A2666842	A2666842	1M0535F17
C 92	21.2	1.3	42	17	A2826548	A2826548	1M0210I02	C 165	20.4	1.3	31	17	A2769451	A2769451	1M0570K07
C 93	21.2	1.3	42	17	A2941720	A2941720	2M0201O03	C 166	20.4	1.3	31	17	A2777026	A2777026	2M0011I08
C 94	21.2	1.3	48	17	A2596241	A2596241	1M0409F23	C 167	20.4	1.3	31	17	A2809076	A2809076	2M0072J20
C 95	21.2	1.3	50	9	A1660532	A1660532	web3c12.x	C 168	20.4	1.3	31	17	A2817368	A2817368	2M0086L22
C 96	21.2	1.3	50	12	BE976895	BE976895	bs57d03.Y	C 169	20.4	1.3	31	17	A2821192	A2821192	2M0093A24
C 97	21.2	1.3	50	17	AZ827028	AZ827028	2M0103M09	C 170	20.4	1.3	31	17	A2839201	A2839201	2M0135A14
C 98	21.2	1.3	29	17	AZ764536	AZ764536	1M0560M24	C 171	20.4	1.3	31	17	A2860356	A2860356	2M0166M13
C 99	21	1.3	31	17	AZ798034	AZ798034	2M0054C10	C 172	20.4	1.3	32	17	A2339938	A2339938	1M0071F11
C 100	21	1.3	31	17	AZ861612	AZ861612	2M0168P16	C 173	20.4	1.3	32	17	A2368233	A2368233	1M0118A13
C 101	21	1.3	33	17	AZ484644	AZ484644	1M0311H13	C 174	20.4	1.3	32	17	A2447211	A2447211	1M0234M08
C 102	21	1.3	33	17	TA128E020	TA128E020		C 175	20.4	1.3	32	17	A2465442	A2465442	1M0275D22
C 103	21	1.3	34	17	AZ627849	AZ627849	1M0474I13	C 176	20.4	1.3	32	17	A2490275	A2490275	1M0399J14
C 104	21	1.3	36	17	AZ871856	AZ871856	2M0184O24	C 177	20.4	1.3	32	17	A2590275	A2590275	1M0466D07
C 105	21	1.3	37	17	AZ871856	AZ871856	1M0062M12	C 178	20.4	1.3	32	17	A2626073	A2626073	1M0481H21
C 106	21	1.3	38	17	AZ833216	AZ833216	2M0213B16	C 179	20.4	1.3	32	17	A2628915	A2628915	1M0560N23
C 107	21	1.3	39	17	AZ949919	AZ949919	2M0047L24	C 180	20.4	1.3	32	17	A2815555	A2815555	2M0083F23
C 108	21	1.3	40	17	AZ793917	AZ793917	2M0047L24	C 181	20.4	1.3	32	17	A2836103	A2836103	2M0140O23
C 109	21	1.3	41	13	B1829324	B1829324	603079454	C 182	20.4	1.3	32	17	A2844990	A2844990	2M0146O23
C 110	21	1.3	42	17	AZ590804	AZ590804	1M0400N04	C 183	20.4	1.3	32	17	A2861620	A2861620	2M0212M06
C 111	21	1.3	43	17	AZ864816	AZ864816	2M0174A11	C 184	20.4	1.3	32	17	A2949206	A2949206	1M0062K09
C 112	21	1.3	47	9	AL630245	AL630245		C 185	20.4	1.3	33	17	A2333205	A2333205	1M0129N03
C 113	21	1.3	47	13	B1760112	B1760112	603044604	C 186	20.4	1.3	33	17	A2375613	A2375613	1M0129N05
C 114	21	1.3	48	17	AL752522	AL752522	ArbIdops	C 187	20.4	1.3	33	17	A2375613	A2375613	1M0234O06
C 115	21	1.3	49	10	BE282036	BE282036	601102010	C 188	20.4	1.3	33	17	A2446945	A2446945	1M0243O06
C 116	21	1.3	50	9	AU102581	AU102581		C 189	20.4	1.3	33	17	A2463030	A2463030	1M0271D10
C 117	21	1.3	50	9	AU103718	AU103718		C 190	20.4	1.3	33	17	A2486747	A2486747	1M0315B04
C 118	21	1.3	50	9	AU103950	AU103950		C 191	20.4	1.3	33	17	A2486747	A2486747	1M0315C06
C 119	21	1.3	50	9	AU104723	AU104723		C 192	20.4	1.3	33	17	A2580860	A2580860	1M0369K17
C 120	21	1.3	50	9	AU104733	AU104733		C 193	20.4	1.3	33	17	A2580860	A2580860	1M0369K17
C 121	21	1.3	50	9	AU105398	AU105398		C 194	20.4	1.3	33	17	A2627977	A2627977	1M0476L03
C 122	21	1.3	50	9	AZ794513	AZ794513	2M0048N18	C 195	20.4	1.3	33	17	A2764525	A2764525	1M0560H17
C 123	20.8	1.3	33	12	BE886705	BE886705	601507961	C 196	20.4	1.3	33	17	A2781169	A2781169	2M0101E23
C 124	20.8	1.3	33	12	AZ764523	AZ764523	1M0560E18	C 197	20.4	1.3	33	17	A2825930	A2825930	2M0214E01
C 125	20.8	1.3	41	10	AV672637	AV672637		C 198	20.4	1.3	33	17	A2964682	A2964682	2M0234A01
C 126	20.8	1.3	41	17	AZ423755	AZ423755		C 199	20.4	1.3	33	17	AL752290	AL752290	ArbIdops
C 127	20.8	1.3	42	10	AV957667	AV957667		C 200	20.4	1.3	33	17	DR6D19T	DR6D19T	ArbIdops
C 128	20.8	1.3	50	9	AL638201	AL638201		C 201	20.4	1.3	34	17	AZ321635	AZ321635	1M0042I15
C 129	20.8	1.3	50	9	AU104824	AU104824		C 202	20.4	1.3	34	17	AZ345707	AZ345707	1M0080H02
C 130	20.6	1.3	36	17	AL763948	AL763948	ArbIdops	C 203	20.4	1.3	34	17	AZ375570	AZ375570	1M0129H03
C 131	20.6	1.3	37	17	TA51G080	TA51G080		C 204	20.4	1.3	34	17	AZ465197	AZ465197	1M0275E01
C 132	20.6	1.3	43	17	AZ345493	AZ345493	1M0080E05	C 205	20.4	1.3	34	17	AZ625604	AZ625604	1M0465D16
C 133	20.6	1.3	43	17	AL752568	AL752568	ArbIdops	C 206	20.4	1.3	34	17	AZ650496	AZ650496	1M0520O11
C 134	20.6	1.3	45	17	AZ504116	AZ504116		C 207	20.4	1.3	34	17	AZ758966	AZ758966	1M0551A18
C 135	20.6	1.3	45	17	AL753618	AL753618	ArbIdops	C 208	20.4	1.3	34	17	AZ830800	AZ830800	2M0110D13
C 136	20.6	1.3	49	17	TA33D12P	TA33D12P		C 209	20.4	1.3	34	17	AZ861717	AZ861717	2M0168A23
C 137	20.6	1.3	50	9	AU103660	AU103660		C 210	20.4	1.3	34	17	AZ966622	AZ966622	2M0237O11
C 138	20.4	1.3	30	17	AZ320274	AZ320274		C 211	20.4	1.3	35	9	AL632985	AL632985	
C 139	20.4	1.3	30	17	AZ323580	AZ323580	1M0045N05	C 212	20.4	1.3	35	17	AZ317100	AZ317100	1M0035E01
C 140	20.4	1.3	30	17	AZ389258	AZ389258	1M0149K12	C 213	20.4	1.3	35	17	AZ321115	AZ321115	1M0041H02
C 141	20.4	1.3	30	17	AZ390605	AZ390605		C 214	20.4	1.3	35	17	AZ609583	AZ609583	1M0434L13
C 142	20.4	1.3	30	17	AZ412491	AZ412491	1M0186A03	C 215	20.4	1.3	35	17	AZ636745	AZ636745	1M0495F14
C 143	20.4	1.3	30	17	AZ464926	AZ464926	1M0274J04	C 216	20.4	1.3	35	17	AZ764499	AZ764499	1M0560K05
C 144	20.4	1.3	30	17	AZ465216	AZ465216	1M0275D04	C 217	20.4	1.3	35	17	AZ764535	AZ764535	1M0560M22
C 145	20.4	1.3	30	17	AZ468615	AZ468615	1M0281D22	C 218	20.4	1.3	35	17	AZ784082	AZ784082	2M0026E04
C 146	20.4	1.3	30	17	AZ487848	AZ487848	1M0317H13	C 219	20.4	1.3	35	17	AZ817073	AZ817073	2M0086D07
C 147	20.4	1.3	30	17	AZ490365	AZ490365	1M0323J14	C 220	20.4	1.3	35	17	AZ831930	AZ831930	2M0110J21
C 148	20.4	1.3	30	17	AZ638210	AZ638210	1M0498C06	C 221	20.4	1.3	35	17	AZ858898	AZ858898	2M0164H14
C 149	20.4	1.3	30	17	AZ764531	AZ764531	1M0560M15	C 222	20.4	1.3	35	17	AZ967442	AZ967442	2M0238F20
C 150	20.4	1.3	30	17	AZ788303	AZ788303	2M0035K15	C 223	20.4	1.3	35	17	AZ969917	AZ969917	2M0242D20
C 151	20.4	1.3	30	17	AZ807237	AZ807237	2M0069L19	C 224	20.4	1.3	35	17	AL752534	AL752534	ArbIdops
C 152	20.4	1.3	30	17	AZ824951	AZ824951	2M0099E19	C 225	20.4	1.3	36	17	AZ337595	AZ337595	1M0068O17

C 226	20.4	1.3	36	17	A2623038	1M0460L13	C 299	20.4	1.3	44	17	A2853281	A2853281
C 227	20.4	1.3	36	17	A2764529	1M0560L17	C 300	20.4	1.3	44	17	A2959914	A2959914
C 228	20.4	1.3	36	17	A2766476	1M0564P01	C 301	20.4	1.3	45	17	A2442112	A2442112
C 229	20.4	1.3	36	17	A2772448	1M0583018	C 302	20.4	1.3	45	17	A2822082	A2822082
C 230	20.4	1.3	36	17	A2777975	2M0012E19	C 303	20.4	1.3	45	17	A2822082	A2822082
C 231	20.4	1.3	36	17	A2779331	2M0056D07	C 304	20.4	1.3	45	17	A2763837	A2763837
C 232	20.4	1.3	36	17	A2806045	2M0067P17	C 305	20.4	1.3	46	17	A2510203	A2510203
C 233	20.4	1.3	36	17	A2829267	2M0106014	C 306	20.4	1.3	46	17	A2510203	A2510203
C 234	20.4	1.3	36	17	A2847658	2M0148K14	C 307	20.4	1.3	46	17	A2510203	A2510203
C 235	20.4	1.3	36	17	A2873086	2M0186M07	C 308	20.4	1.3	47	17	A2597778	A2597778
C 236	20.4	1.3	37	17	A2311322	1M0262N11	C 309	20.4	1.3	47	17	A2851558	A2851558
C 237	20.4	1.3	37	17	A2459123	1M0263D16	C 310	20.4	1.3	47	17	A2851558	A2851558
C 238	20.4	1.3	37	17	A2761163	1M0555P18	C 311	20.4	1.3	47	17	A2851558	A2851558
C 239	20.4	1.3	37	17	A2784558	2M0027G15	C 312	20.4	1.3	48	17	A2851558	A2851558
C 240	20.4	1.3	37	17	A2853189	2M0156D13	C 313	20.4	1.3	48	17	A2851558	A2851558
C 241	20.4	1.3	37	17	A2897433	2M0284A01	C 314	20.4	1.3	48	17	A2851558	A2851558
C 242	20.4	1.3	37	17	DR11K9T	2M0156D13	C 315	20.4	1.3	49	17	A2851558	A2851558
C 243	20.4	1.3	38	17	AW332997	S16A3 AGS	C 316	20.4	1.3	49	17	A2851558	A2851558
C 244	20.4	1.3	38	17	A2402445	1M0169D13	C 317	20.4	1.3	49	17	A2851558	A2851558
C 245	20.4	1.3	38	17	A2462853	1M0271D22	C 318	20.4	1.3	49	17	A2851558	A2851558
C 246	20.4	1.3	38	17	A2479185	1M0271D22	C 319	20.4	1.3	49	17	A2851558	A2851558
C 247	20.4	1.3	38	17	A2490125	1M0322J19	C 320	20.4	1.3	49	17	A2851558	A2851558
C 248	20.4	1.3	38	17	A2500372	1M0338M11	C 321	20.4	1.3	49	17	A2851558	A2851558
C 249	20.4	1.3	38	17	A2512402	1M0357H20	C 322	20.4	1.3	50	9	AU102224	AU102224
C 250	20.4	1.3	38	17	A2557455	1M0533H08	C 323	20.4	1.3	50	9	AU102225	AU102225
C 251	20.4	1.3	38	17	A2764657	1M0561J11	C 324	20.4	1.3	50	9	AU102227	AU102227
C 252	20.4	1.3	38	17	A2777129	1M0397F10	C 325	20.4	1.3	50	9	AU102231	AU102231
C 253	20.4	1.3	38	17	A2861891	2M0118P18	C 326	20.4	1.3	50	9	AU102231	AU102231
C 254	20.4	1.3	38	17	A2863994	2M0173B22	C 327	20.4	1.3	50	9	AU102240	AU102240
C 255	20.4	1.3	38	17	A2973770	2M0248C11	C 328	20.4	1.3	50	9	AU102242	AU102242
C 256	20.4	1.3	39	10	AV673727	AV673727	C 329	20.4	1.3	50	9	AU104457	AU104457
C 257	20.4	1.3	39	10	AV673727	1M0080E02	C 330	20.4	1.3	50	9	AU104462	AU104462
C 258	20.4	1.3	39	17	A2345492	1M0080E02	C 331	20.4	1.3	50	13	B1491464	B1491464
C 259	20.4	1.3	39	17	A2402785	1M0397F10	C 332	20.4	1.3	50	13	A2358097	A2358097
C 260	20.4	1.3	39	17	A2588974	1M0397F10	C 333	20.4	1.3	50	17	A2765990	A2765990
C 261	20.4	1.3	39	17	A2779298	1M0397F10	C 334	20.4	1.3	50	17	A2816629	A2816629
C 262	20.4	1.3	39	17	DR11A19T	1M0397F10	C 335	20.4	1.3	50	17	A2816629	A2816629
C 263	20.4	1.3	40	17	A2330731	1M0056C12	C 336	20.4	1.3	50	17	A2816629	A2816629
C 264	20.4	1.3	40	17	A2465284	1M0275B10	C 337	20.4	1.3	50	17	A2816629	A2816629
C 265	20.4	1.3	40	17	A2511352	1M0275B10	C 338	20.4	1.3	50	17	A2816629	A2816629
C 266	20.4	1.3	40	17	A2628038	1M0476M17	C 339	20.4	1.3	50	17	A2816629	A2816629
C 267	20.4	1.3	40	17	A2761020	1M0555E08	C 340	20.4	1.3	50	17	A2816629	A2816629
C 268	20.4	1.3	40	17	A2813980	1M0555E08	C 341	20.4	1.3	50	17	A2816629	A2816629
C 269	20.4	1.3	40	17	A2952893	2M0217G24	C 342	20.4	1.3	50	17	A2816629	A2816629
C 270	20.4	1.3	41	17	A2336102	1M0066P10	C 343	20.4	1.3	50	17	A2816629	A2816629
C 271	20.4	1.3	41	17	A2387155	1M0066P10	C 344	20.4	1.3	50	17	A2816629	A2816629
C 272	20.4	1.3	41	17	A2441468	1M0233B16	C 345	20.4	1.3	50	17	A2816629	A2816629
C 273	20.4	1.3	41	17	A2644592	1M0508A10	C 346	20.4	1.3	50	17	A2816629	A2816629
C 274	20.4	1.3	41	17	A2780599	2M0173M14	C 347	20.4	1.3	50	17	A2816629	A2816629
C 275	20.4	1.3	41	17	A2803708	2M0064D17	C 348	20.4	1.3	50	17	A2816629	A2816629
C 276	20.4	1.3	41	17	A2864299	2M0184C24	C 349	20.4	1.3	50	17	A2816629	A2816629
C 277	20.4	1.3	41	17	A2871797	1M0061D12	C 350	20.4	1.3	50	17	A2816629	A2816629
C 278	20.4	1.3	42	17	A234776	1M0064G22	C 351	20.4	1.3	50	17	A2816629	A2816629
C 279	20.4	1.3	42	17	A2345178	1M0078T21	C 352	20.4	1.3	50	17	A2816629	A2816629
C 280	20.4	1.3	42	17	A2347739	1M0201A01	C 353	20.4	1.3	50	17	A2816629	A2816629
C 281	20.4	1.3	42	17	A2422685	1M0560M21	C 354	20.4	1.3	50	17	A2816629	A2816629
C 282	20.4	1.3	42	17	A2764537	1M0560M21	C 355	20.4	1.3	50	17	A2816629	A2816629
C 283	20.4	1.3	42	17	A2787936	1M0560M21	C 356	20.4	1.3	50	17	A2816629	A2816629
C 284	20.4	1.3	42	17	DR4NAT	1M0229K17	C 357	20.4	1.3	50	17	A2816629	A2816629
C 285	20.4	1.3	43	17	A2439246	1M0229K17	C 358	20.4	1.3	50	17	A2816629	A2816629
C 286	20.4	1.3	43	17	A2462780	1M0271G16	C 359	20.4	1.3	50	17	A2816629	A2816629
C 287	20.4	1.3	43	17	A2764501	1M0560L02	C 360	20.4	1.3	50	17	A2816629	A2816629
C 288	20.4	1.3	43	17	A2779168	2M0008P16	C 361	20.4	1.3	50	17	A2816629	A2816629
C 289	20.4	1.3	43	17	A2820789	2M00093A18	C 362	20.4	1.3	50	17	A2816629	A2816629
C 290	20.4	1.3	43	17	A2848760	2M0149G24	C 363	20.4	1.3	50	17	A2816629	A2816629
C 291	20.4	1.3	43	17	AL752506	1M0560M21	C 364	20.4	1.3	50	17	A2816629	A2816629
C 292	20.4	1.3	43	17	BE614040	601503868	C 365	20.4	1.3	50	17	A2816629	A2816629
C 293	20.4	1.3	44	10	BE614040	601503868	C 366	20.4	1.3	50	17	A2816629	A2816629
C 294	20.4	1.3	44	17	AL752506	1M0560M21	C 367	20.4	1.3	50	17	A2816629	A2816629
C 295	20.4	1.3	44	17	A2439038	1M0229G24	C 368	20.4	1.3	50	17	A2816629	A2816629
C 296	20.4	1.3	44	17	A2486433	1M0314N20	C 369	20.4	1.3	50	17	A2816629	A2816629
C 297	20.4	1.3	44	17	A2654673	1M0528P20	C 370	20.4	1.3	50	17	A2816629	A2816629
C 298	20.4	1.3	44	17	A2657476	1M0533L12	C 371	20.4	1.3	50	17	A2816629	A2816629
C 299	20.4	1.3	44	17	A2774067	2M0003J01	C 372	20.4	1.3	50	17	A2816629	A2816629

C 372	19.8	1.3	39	17	AZ987023	AZ987023 2M0269N24	445	19.2	1.2	39	17	AZ804350	AZ804350 2M0065M24
C 373	19.8	1.3	42	13	B1546340	B1546340 603188832	446	19.2	1.2	43	13	B1103457	B1103457 602888987
C 374	19.8	1.3	43	17	BH888835	BH888835 3526_1_30	C 447	19.2	1.2	44	13	B1001599	B1001599 83001599
C 375	19.8	1.3	48	17	AA399365	AA399365 zt50d07.s	C 448	19.2	1.2	48	13	B1436602	B1436602 603206257
C 376	19.8	1.3	48	17	AZ381877	AZ381877 1M0138E08	C 449	19.2	1.2	50	9	AU102333	AU102333 603206257
C 377	19.8	1.3	49	17	AL595742	AL595742 AL595742	C 450	19.2	1.2	50	9	AU104789	AU104789 603206257
C 378	19.8	1.3	50	9	AU102725	AU102725 AU102725	C 451	19.2	1.2	50	9	AU104790	AU104790 603206257
C 379	19.8	1.3	50	9	AU104786	AU104786 AU104786	C 452	19.2	1.2	50	9	AU104794	AU104794 603206257
C 380	19.8	1.3	50	9	AU104787	AU104787 AU104787	C 453	19.2	1.2	50	9	AU104796	AU104796 603206257
C 381	19.8	1.3	50	9	AU104788	AU104788 AU104788	C 454	19.2	1.2	50	9	AU104799	AU104799 603206257
C 382	19.8	1.3	50	9	AU104791	AU104791 AU104791	C 455	19.2	1.2	50	9	AU104799	AU104799 603206257
C 383	19.8	1.3	50	9	AU104796	AU104796 AU104796	C 456	19.2	1.2	50	9	AU104803	AU104803 603206257
C 384	19.8	1.3	50	9	AU104800	AU104800 AU104800	C 457	19.2	1.2	50	9	AU105180	AU105180 603206257
C 385	19.8	1.3	50	9	AU104802	AU104802 AU104802	C 458	19.2	1.2	50	9	AU106941	AU106941 603206257
C 386	19.8	1.3	50	9	AU106878	AU106878 AU106878	C 459	19.2	1.2	50	9	AU107725	AU107725 603206257
C 387	19.6	1.2	26	17	AZ604431	AZ604431 1M0425114	C 460	19.2	1.2	27	17	AZ604434	AZ604434 1M0425118
C 388	19.6	1.2	34	17	AZ662785	AZ662785 1M0542C01	C 461	19.2	1.2	27	17	AZ649949	AZ649949 1M0519P18
C 389	19.6	1.2	34	17	AZ662785	AZ662785 1M0542C01	C 462	19.2	1.2	28	17	AZ640161	AZ640161 1M0501G23
C 390	19.6	1.2	39	13	B1687986	B1687986 60315748	C 463	19.2	1.2	28	17	AZ806290	AZ806290 602288053
C 391	19.6	1.2	43	9	A1311377	A1311377 q088e07.x	C 464	19.2	1.2	28	17	AZ423751	AZ423751 1M0203B22
C 392	19.6	1.2	46	14	N44070	N44070 y30f05.t1	C 465	19.2	1.2	29	17	AZ662726	AZ662726 602288053
C 393	19.6	1.2	50	9	AU103951	AU103951 AU103951	C 466	19.2	1.2	29	17	BG821619	BG821619 602288053
C 394	19.6	1.2	50	9	AU103952	AU103952 AU103952	C 467	19.2	1.2	36	12	BG821619	BG821619 602288053
C 395	19.6	1.2	50	9	AU104069	AU104069 AU104069	C 468	19.2	1.2	36	17	AZ387862	AZ387862 1M0544E05
C 396	19.6	1.2	50	9	AU107430	AU107430 AU107430	C 469	19.2	1.2	36	17	AZ664037	AZ664037 603174412
C 397	19.6	1.2	50	9	AU107431	AU107431 AU107431	C 470	19.2	1.2	39	17	AZ846058	AZ846058 2M0146B07
C 398	19.6	1.2	50	9	AU107644	AU107644 AU107644	C 471	19.2	1.2	40	9	A1088727	A1088727 qal6e11.x
C 399	19.6	1.2	50	9	AU108067	AU108067 AU108067	C 472	19.2	1.2	44	12	BF979583	BF979583 602288053
C 400	19.6	1.2	50	9	AU108068	AU108068 AU108068	C 473	19.2	1.2	45	17	AZ833466	AZ833466 2M015G01
C 401	19.6	1.2	50	9	AU108069	AU108069 AU108069	C 474	19.2	1.2	48	13	B1466893	B1466893 603174412
C 402	19.6	1.2	50	9	AU108070	AU108070 AU108070	C 475	19.2	1.2	49	9	B1466900	B1466900 603174420
C 403	19.6	1.2	50	9	AU108072	AU108072 AU108072	C 476	19.2	1.2	49	17	AA775622	AA775622 zt30f12.s
C 404	19.6	1.2	50	9	AU108074	AU108074 AU108074	C 477	19.2	1.2	49	17	TA3868B04P	TA3868B04P
C 405	19.6	1.2	50	9	AU108076	AU108076 AU108076	C 478	19.2	1.2	50	9	AU102312	AU102312 602288053
C 406	19.6	1.2	50	9	AU108077	AU108077 AU108077	C 479	19.2	1.2	50	9	AU102567	AU102567 602288053
C 407	19.6	1.2	50	9	AU108077	AU108077 AU108077	C 480	19.2	1.2	50	9	AU102568	AU102568 602288053
C 408	19.6	1.2	50	9	AU108077	AU108077 AU108077	C 481	19.2	1.2	50	9	AU102571	AU102571 602288053
C 409	19.4	1.2	29	17	AM335514	AM335514 548B6 AGS	C 482	19.2	1.2	50	9	AU103109	AU103109 602288053
C 410	19.4	1.2	29	17	AZ361996	AZ361996 1M0106J22	C 483	19.2	1.2	50	9	AU103111	AU103111 602288053
C 411	19.4	1.2	29	17	AZ361996	AZ361996 1M0106J22	C 484	19.2	1.2	50	9	AU103112	AU103112 602288053
C 412	19.4	1.2	29	17	AZ361996	AZ361996 1M0106J22	C 485	19.2	1.2	50	9	AU103122	AU103122 602288053
C 413	19.4	1.2	29	17	AZ361996	AZ361996 1M0106J22	C 486	19.2	1.2	50	9	AU103136	AU103136 602288053
C 414	19.4	1.2	29	17	AZ361996	AZ361996 1M0106J22	C 487	19.2	1.2	50	9	AU103169	AU103169 602288053
C 415	19.4	1.2	29	17	AZ361996	AZ361996 1M0106J22	C 488	19.2	1.2	50	9	AU105167	AU105167 602288053
C 416	19.4	1.2	29	17	AZ361996	AZ361996 1M0106J22	C 489	19.2	1.2	50	9	AU105167	AU105167 602288053
C 417	19.4	1.2	29	17	AZ361996	AZ361996 1M0106J22	C 490	19.2	1.2	50	9	AU107989	AU107989 602288053
C 418	19.4	1.2	31	17	AZ456387	AZ456387 1M0259B21	C 491	19.2	1.2	50	13	B1416671	B1416671 602288053
C 419	19.4	1.2	31	17	AZ800982	AZ800982 2M0059P18	C 492	19.2	1.2	50	17	AZ776790	AZ776790 2M0010C14
C 420	19.4	1.2	31	17	AZ800982	AZ800982 2M0059P18	C 493	19.2	1.2	50	17	AZ936918	AZ936918 2M0193H21
C 421	19.4	1.2	32	17	AZ441480	AZ441480 1M0233F13	C 494	19.2	1.2	50	17	AZ650045	AZ650045 1M0520E05
C 422	19.4	1.2	32	17	AZ441480	AZ441480 1M0233F13	C 495	19.2	1.2	30	17	AZ853274	AZ853274 2M0156D23
C 423	19.4	1.2	32	17	AZ764530	AZ764530 1M0560L18	C 496	19.2	1.2	30	17	AZ864315	AZ864315 2M0173P16
C 424	19.4	1.2	32	17	AZ809474	AZ809474 2M0073D05	C 497	19.2	1.2	30	17	TA28409P	TA28409P 602288053
C 425	19.4	1.2	33	17	AZ404047	AZ404047 1M0172A10	C 498	19.2	1.2	31	17	AZ761993	AZ761993 602288053
C 426	19.4	1.2	39	13	BJ000542	BJ000542 2M0143B07	C 499	19.2	1.2	31	17	AZ758290	AZ758290 602288053
C 427	19.4	1.2	40	10	AZ844480	AZ844480 2M0143B07	C 500	19.2	1.2	32	17	AZ758290	AZ758290 602288053
C 428	19.4	1.2	41	12	BF383813	BF383813 602044728	C 501	19.2	1.2	32	17	DR9H33S	DR9H33S 602288053
C 429	19.4	1.2	42	17	TA43604P	TA43604P 602044728	C 502	19.2	1.2	32	17	AZ829570	AZ829570 602288053
C 430	19.4	1.2	43	9	A1655018	A1655018 w66b02.x	C 503	19.2	1.2	33	17	AZ829570	AZ829570 602288053
C 431	19.4	1.2	46	9	AA936385	AA936385 o49903.s	C 504	19.2	1.2	33	17	AZ829570	AZ829570 602288053
C 432	19.4	1.2	47	17	AZ495722	AZ495722 1M0331E15	C 505	19.2	1.2	35	10	AV966847	AV966847 602288053
C 433	19.4	1.2	49	9	A1623465	A1623465 ts19a05.x	C 506	19.2	1.2	35	17	AZ861607	AZ861607 602288053
C 434	19.4	1.2	50	9	AU102468	AU102468 AU102468	C 507	19.2	1.2	35	17	BJ000158	BJ000158 602288053
C 435	19.4	1.2	50	9	AU102922	AU102922 AU102922	C 508	19.2	1.2	35	17	AL763877	AL763877 602288053
C 436	19.4	1.2	50	9	AU102943	AU102943 AU102943	C 509	19.2	1.2	38	13	AL763877	AL763877 602288053
C 437	19.4	1.2	50	9	AU104769	AU104769 AU104769	C 510	19.2	1.2	40	12	AL763877	AL763877 602288053
C 438	19.4	1.2	50	9	AU105396	AU105396 AU105396	C 511	19.2	1.2	40	12	AL763877	AL763877 602288053
C 439	19.4	1.2	50	9	AU105993	AU105993 AU105993	C 512	19.2	1.2	43	9	AL763877	AL763877 602288053
C 440	19.4	1.2	50	9	AU107494	AU107494 AU107494	C 513	19.2	1.2	44	17	AZ506222	AZ506222 602288053
C 441	19.4	1.2	50	9	AU107937	AU107937 AU107937	C 514	19.2	1.2	47	17	AZ797405	AZ797405 602288053
C 442	19.4	1.2	50	9	AZ776242	AZ776242 2M0009P12	C 515	19.2	1.2	47	17	BH808765	BH808765 602288053
C 443	19.2	1.2	25	9	A1762378	A1762378 w154f10.x	C 516	19.2	1.2	49	9	AA902362	AA902362 602288053
C 444	19.2	1.2	37	10	AV673465	AV673465 602288053	C 517	19.2	1.2	49	9	AA948394	AA948394 602288053



518	18.8	1.2	49	13	BG975755	BG975755 602845484	C 591	18.4	1.2	28	17	A2853419	A2853419 2M0156B09
519	18.8	1.2	49	13	BM126198	BM126198 jf07a11.x	C 592	18.4	1.2	28	17	A2861884	A2861884 2M0168D20
520	18.8	1.2	49	14	H55111	H55111 CHR220050 C	C 593	18.4	1.2	28	17	A2863212	A2863212 2M0171E20
521	18.8	1.2	49	14	U38158	U38158 OS038158 FD	C 594	18.4	1.2	28	17	A2871505	A2871505 2M0184F20
522	18.8	1.2	49	17	A2821504	A2821504 2M0094K14	C 595	18.4	1.2	28	17	A2871733	A2871733 2M0184F16
523	18.8	1.2	50	9	AU102583	AU102583 AU102583	C 596	18.4	1.2	29	17	A2479882	A2479882 1M0300B20
524	18.8	1.2	50	9	AU102926	AU102926 AU102926	C 597	18.4	1.2	29	17	A2659788	A2659788 1M0537024
525	18.8	1.2	50	9	AU102928	AU102928 AU102928	C 598	18.4	1.2	32	17	A2381426	A2381426 1M0138E03
526	18.8	1.2	50	9	AU104049	AU104049 AU104049	C 599	18.4	1.2	34	9	A1122781	A1122781 qa8g10.x
527	18.8	1.2	50	9	AU104795	AU104795 AU104795	C 600	18.4	1.2	37	13	B1669786	B1669786 603293364
528	18.8	1.2	50	9	AU104936	AU104936 AU104936	C 601	18.4	1.2	38	17	AZ883931	AZ883931 2M0264105
529	18.8	1.2	50	9	AU105416	AU105416 AU105416	C 602	18.4	1.2	39	13	BG921277	BG921277 602824119
530	18.8	1.2	50	9	AU105557	AU105557 AU105557	C 603	18.4	1.2	40	17	A2431922	A2431922 1M0217D21
531	18.8	1.2	50	9	AU105905	AU105905 AU105905	C 604	18.4	1.2	44	17	A2778327	A2778327 2M0013016
532	18.8	1.2	50	9	AU107236	AU107236 AU107236	C 605	18.4	1.2	45	12	BE905246	BE905246 601499287
533	18.8	1.2	50	9	AU107980	AU107980 AU107980	C 606	18.4	1.2	45	13	B1665503	B1665503 603289560
534	18.8	1.2	50	9	AU108088	AU108088 AU108088	C 607	18.4	1.2	45	13	B1683735	B1683735 603306101
535	18.8	1.2	50	17	AQ073822	AQ073822 EP(3)3211	C 608	18.4	1.2	45	17	AZ332027	AZ332027 1M0060L08
536	18.6	1.2	33	17	AZ861588	AZ861588 2M0168J04	C 609	18.4	1.2	45	17	AZ665047	AZ665047 1M0426L10
537	18.6	1.2	34	17	AZ869302	AZ869302 2M0181C20	C 610	18.4	1.2	46	9	AA908611	AA908611 oq85e08.s
538	18.6	1.2	34	9	A1589397	A1589397 tr61h11.x	C 611	18.4	1.2	46	9	A1677817	A1677817 wc80q04.x
539	18.6	1.2	34	17	AZ776846	AZ776846 2M0210A20	C 612	18.4	1.2	46	10	AV963987	AV963987 AV963987
540	18.6	1.2	34	17	AZ966687	AZ966687 2M0237L17	C 613	18.4	1.2	46	10	BH803079	BH803079 1008098H1
541	18.6	1.2	35	13	BM047352	BM047352 603628475	C 614	18.4	1.2	48	17	AL754610	AL754610 Atabidops
542	18.6	1.2	36	17	AZ759424	AZ759424 1M0551H17	C 615	18.4	1.2	49	9	A1076632	A1076632 oz31d09.x
543	18.6	1.2	37	17	A2463268	A2463268 1M0272H01	C 616	18.4	1.2	49	9	A1246743	A1246743 qk40c09.x
544	18.6	1.2	41	13	B1659955	B1659955 603302286	C 617	18.4	1.2	49	9	A1420261	A1420261 tf06b06.x
545	18.6	1.2	41	13	B1031143	B1031143 BU031143	C 618	18.4	1.2	49	9	AA433110	AA433110 vd94g03.r
546	18.6	1.2	41	17	AZ937325	AZ937325 2M0195A02	C 619	18.4	1.2	49	14	W10306	W10306 ma37d01.r1
547	18.6	1.2	42	13	B1769932	B1769932 603060216	C 620	18.4	1.2	50	9	AU102556	AU102556 AU102556
548	18.6	1.2	43	9	A1445618	A1445618 t108b03.x	C 621	18.4	1.2	50	9	AU102557	AU102557 AU102557
549	18.6	1.2	44	17	BH623050	BH623050 1007085E0	C 622	18.4	1.2	50	9	AU102558	AU102558 AU102558
550	18.6	1.2	44	17	AA948496	AA948496 on53b06.s	C 623	18.4	1.2	50	9	AU102559	AU102559 AU102559
551	18.6	1.2	46	9	AA660536	AA660536 AL660536	C 624	18.4	1.2	50	9	AU103688	AU103688 AU103688
552	18.6	1.2	47	17	AZ476231	AZ476231 1M0294P14	C 625	18.4	1.2	50	9	AU104336	AU104336 AU104336
553	18.6	1.2	49	9	AA973215	AA973215 on93h09.s	C 626	18.4	1.2	50	9	AU104338	AU104338 AU104338
554	18.6	1.2	49	9	AA985654	AA985654 or71c05.s	C 627	18.4	1.2	50	9	AU104340	AU104340 AU104340
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## ALIGNMENTS

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mRNA sequence.
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ORGANISM human.
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Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 43)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLES National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaops-r@mail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.

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Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: <http://image.llnl.gov>  
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BASE COUNT  
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Query Match 1.7%; Score 26.2; DB 13; Length 43;  
 Best Local Similarity 79.5%; Pred. No. 2.2e+05;  
 Matches 31; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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RESULT 2
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VERSION A2374770.1 GI:10488470
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus.

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REFERENCE 1 (bases 1 to 50)
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Km. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert length: 10000 Std. Error: 0.00
Plate: 0127 row: 1 column: 18
Seq primer: CACACAGGAGAACGCTATGACCC
Class: plasmid ends
High quality sequence stop: 50.
Location/Qualifiers
1..50
/organism="Mus musculus"
/strain="G57BL/6J"
/db_xref="taxon:10090"
/clone="U06C1M0127118"
/clone_1ib="Mouse 10kb plasmid U06C1M library"

```

```

TITLES
JOURNAL
COMMENT
FEATURES
SOURCE

```

```

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5205425"
/clone.lib="NIH_MGC_122"
/lab_host="DH10B"
/note="Organ: pooled lung and spleen; Vector: pCMV-Sport6
Site.1: NotI; Site.2: EcoRV (destroyed); RNA source
anonymous pool of 24 week female lung, 16 week female
spleen, and 20-22 week male spleens. Library is oligo-dT
primed and directionally cloned (EcoRV site is destroyed
upon cloning). Average insert size 1.4 kb, insert size

```

2Y 12 AGCGAGGAGAGCGAGCGGGCGAGCCGAGCGAGGAAGGGAAGCCG 60



Matches 31; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 1341 GCGGGGAGAGCGGGCGGAGCGGGCGGGCGG 1382

Db 1 GCAGCTACGCGCGCGGGGCGGCTAGGCGCGCGCG 42

RESULT 8  
AV947640/c 47 bp mRNA linear EST 14-MAR-2002  
LOCUS AV947640 Nori Satoh unpublished cDNA library, young adult cDNA  
DEFINITION intestinalis cDNA clone cladi01916 5', mRNA sequence.  
ACCESSION AV947640  
VERSION AV947640.1 GI:19425399  
KEYWORDS EST.  
SOURCE Clona intestinalis.  
ORGANISM Clona intestinalis.  
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;  
Phlebobranchia; Clonidae; Clona.

REFERENCE 1 (bases 1 to 47)  
AUTHORS Satoh,N., Satou,Y., Kohara,Y. and Shin-I,T.  
TITLE Expressed genes in Clona intestinalis  
JOURNAL Unpublished (2000)  
COMMENT Contact: Nori Satoh  
Department of Zoology  
Kyoto University  
Sakyo-ku, Kyoto 606-8502, Japan  
Tel: 81-75-753-4081  
Fax: 81-75-705-1113  
Email: satoh@ascidian.zool.kyoto-u.ac.jp.

FEATURES  
Source Location/Qualifiers  
1..47  
/organism="Clona intestinalis"  
/db\_xref="taxon:7719"  
/clone="cladi01916"  
/clone\_lib="Nori Satoh unpublished cDNA library, young adult"  
/issue\_type="whole animal"  
/dev\_stage="young adult"  
/note="Vector: pBluescript SK"

BASE COUNT 0 a 23 c 23 t 1 others  
ORIGIN

Query Match 1.5%; Score 24.2; DB 10; Length 47;  
Best Local Similarity 69.6%; Pred. No. 5.4e+05;  
Matches 32; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

OY 12 AGGAGAGAGAGCGCGCGGCGGAGCGGAGGGAAG 57

Db 46 AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1

RESULT 9  
BJ000572/c 45 bp mRNA linear EST 05-DEC-2001  
LOCUS BJ000572 MF01SSA cDNA Oryzias latipes cDNA clone MF01SSA019B12 5',  
DEFINITION mRNA sequence.  
ACCESSION BJ000572  
VERSION BJ000572.1 GI:17361239  
KEYWORDS EST.  
SOURCE Japanese medaka.  
ORGANISM Oryzias latipes.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
Acanthopterygii; Acanthopterygii; Percomorpha; Altheriomorpha;  
Belontiiformes; Adrianichthyidae; Oryziinae; Oryzias.  
REFERENCE 1 (bases 1 to 45)  
AUTHORS Kohara,Y., Shin-I,T., Kimura,T., Narita,T., Jindo,T. and Takeda,H.  
TITLE Medaka EST Project in Takeda's lab  
JOURNAL Unpublished (2001)  
COMMENT Contact: Tadasi Shin-I  
National Institute of Genetics

1111 Yata, Mishima, Shizuoka 411-8540, Japan  
Tel: 81-559-81-6856  
Fax: 81-559-81-6855  
Email: tsunigenes.nig.ac.jp.  
location/Qualifiers  
1..45  
/organism="Oryzias latipes"  
/strain="Hd-xR"  
/db\_xref="taxon:8090"  
/clone="MF01SSA019B12"  
/clone\_lib="MF01SSA cDNA"  
/sex="mixture of female and male"  
/issue\_type="whole embryo"  
/dev\_stage="segmentation stage 20 - 25"

BASE COUNT 1 a 23 c 19 t 2 others  
ORIGIN

Query Match 1.5%; Score 23.8; DB 13; Length 45;  
Best Local Similarity 68.9%; Pred. No. 6.4e+05;  
Matches 31; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

OY 13 GCGAGGAGAGAGCGCGCGGAGCGGAGGAGGGAAG 57

Db 45 GNGAGAGAGAGAGAGAGAGTGAAGAGAGAGAGAGAGAG 1

RESULT 10  
A1701058 46 bp mRNA linear EST 17-DEC-1999  
LOCUS A1701058  
DEFINITION WC78C06.X1 NCI-CGAP\_Pani Homo sapiens cDNA clone IMAGE:2324746 3',  
similar to WP:CI8D11.4 CE18515 RNA RECOGNITION MOTIF; contains  
MER22.C3 MSRI repetitive element ;, mRNA sequence.

ACCESSION A1701058  
VERSION A1701058.1 GI:4988958  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 46)  
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
TITLE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
JOURNAL National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgabbs-r@mail.nih.gov  
Life Technologies catalog #: 11548-013  
DNA sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/BLNL at:  
www-bio.livnl.gov/db/ftp/image/image.html

Trace considered overall poor quality  
Insert Length: 3363 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 1.  
location/Qualifiers  
1..46  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2324746"  
/clone\_lib="NCI-CGAP\_Pani"  
/issue\_type="adenocarcinoma"  
/lab\_host="DH10B"  
/note="organ: pancreas; Vector: pCMV-Sport6; Site: 1; Salt;  
Site: 2; NotI; Cloned unidirectionally. Primer: Oligo dT.  
Average insert size 1.72 kb. Life Technologies catalog #:  
11548-013"

BASE COUNT 8 a 8 c 30 g 0 t  
ORIGIN

Query Match 1.5%; Score 23.8; DB 9; Length 46;  
Best Local Similarity 72.1%; Pred. No. 6.4e+05;





BASE COUNT  
ORIGIN

QY 12 AGCAGAGGAGAGAGCGGCGGAGCCGAGCGAGAAAG 57  
47 AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2

REFERENCE  
AUTHORS

JOURNAL  
COMMENT

## FEATURES

```

1. 47
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U00GC2M0156K04"
/clone_lib="Mouse 10kb plasmid U00GCM library"
/sex="Male"
/lab_host="E. coli strain XL10-GOLD, T1-resistant, F-"
/note="Vector: pMD18my; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The

```

BASE COUNT  
ORIGIN

[illegible]

REFERENCE  
AUTHORS

JOURNAL  
COMMENT

## FEATURES

### SOURCE

```

1. .47
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="VUGC2M0170N09"
/clone_lib="Mouse 10kb plasmid VUGC1M library"
/sex="Male"
/lab_host="E. coli strain XL10-gold, T1-resistant, F--"
/notice="Vector: PMD42uv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The

```



RESULT 18  
AZ335579

1  
 2  
 3  
 4  
 5  
 6  
 7

### DEFINITION

Accession	Size	Type	Source	Release Date
AZ335579	49 bp	DNA	linear	GSS 29-SEP-2000
U0065A01R	10kb	plasmid	Mouse	musculus genomic

ACCESSION

AZ3355/9

## KEYWORDS

GSS.

## ORGANIS

Musculi

Даруллоҳ, Мамаҷиш.

## REFERENCE

1 (bases 1

Islam, H., Longacre, S., Mahmoud, M., Meenen, F., Pedersen, T., Reilly

and Wright, D. Weiss, B. von Niederhausen, A.

\*\*\*

mouse whole genome scaffolding with paired end reads from 10Kb





cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
<http://image.jnl.gov>  
Plate: LNL1698.row: d Column: 21  
High quality sequence stop: 23  
Location: 2nd floor

**FEATURES**  
**SOURCE**

BASE COUNT  
ORIGIN

5 a 12 c 23 g 3 t

Query Match	1.4%;	Score 22.2;	DB 13;	Length 43;
Best Local Similarity	77.1%;	Pred. No. 1.3e+06;		
Matches 27; Conservative	0;	Mismatches 8;	Indels 0;	Gaps 0;

QY 1352 AGCGGCGCGGGGACCGCGGGCGCGCGGACG 1386  
||||| ||||| || ||||| ||  
Db 1 AGCGAGCGGGGCGCGGGTCACCGCGCTGAG 35

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Search completed: March 13, 2003, 23:58:36
Job time : 2479 secs
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